



27.01.2021

### Kit components

Product code	Description
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<b>DRE-K50000291IT</b>	<b>Smart Solutions™ v400 GC PestiMix Kit 1</b>
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#### Components:

DRE-A50000292IT	GC PestiMix 1 10 µg/mL in Isooctane:Toluene (50:50)
DRE-A50000293IT	GC PestiMix 2 10 µg/mL in Isooctane:Toluene (50:50)
DRE-A50000294IT	GC PestiMix 3 10 µg/mL in Isooctane:Toluene (50:50)
DRE-A50000295IT	GC PestiMix 4 10 µg/mL in Isooctane:Toluene (50:50)
DRE-A50000296IT	GC PestiMix 5 10 µg/mL in Isooctane:Toluene (50:50)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2021

Version number 1

Revision: 26.01.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: **GC PestiMix 1 10 µg/mL in Isooctane:Toluene (50:50)**

Part number: DRE-A50000292IT

UFI: U4PF-60NG-T007-D611

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Reference material for laboratory use only

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

LGC Limited

Queens Road

Teddington

Middlesex TW11 0LY

UNITED KINGDOM

Tel : +44 (0) 20 8943 7000

Fax : +44 (0) 20 8943 2767

eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

#### Further information obtainable from:

Product safety department

eMail : sds-request@lgcgroup.com

#### 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2

H315 Causes skin irritation.

STOT SE 3

H336 May cause drowsiness or dizziness.

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**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS02

GHS07

GHS08

GHS09

**Signal word Danger****Hazard-determining components of labelling:**

Toluene

2,2,4-Trimethylpentane

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Also contains substances at levels not considered to be hazardous.

#### · **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 RTECS: XS 5250000	<i>Toluene</i> ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 540-84-1 EINECS: 208-759-1 RTECS: SA 3320000	<i>2,2,4-Trimethylpentane</i> ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 62-73-7 EINECS: 200-547-7 RTECS: TC0350000	<i>Dichlorvos (ISO)</i> ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 1, H330; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 298-02-2 EINECS: 206-052-2 RTECS: TD 9450000	<i>Phorate (ISO)</i> ⚠ Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; ⚠ STOT SE 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 2212-67-1 EINECS: 218-661-0 RTECS: CM2625000	<i>molinate (ISO)</i> ⚠ Carc. 2, H351; Repr. 2, H361f; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.1%
CAS: 2597-03-7 EINECS: 219-997-0 RTECS: AI 7875000	<i>phenthoate (ISO)</i> ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	<0.1%
CAS: 2921-88-2 EINECS: 220-864-4 RTECS: TF 6300000	<i>Chlorpyrifos (ISO)</i> ⚠ Acute Tox. 3, H301; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 3689-24-5 EINECS: 222-995-2 RTECS: XN 4375000	<i>sulfotep (ISO)</i> ⚠ Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 5598-13-0 EINECS: 227-011-5 RTECS: TG0700000	<i>Chlorpyrifos-methyl</i> ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 7786-34-7 EINECS: 232-095-1 RTECS: GQ 5250000	<i>mevinphos (ISO)</i> ⚠ Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; ⚠ STOT SE 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 13071-79-9 EINECS: 235-963-8 RTECS: TD7200000	<i>terbufos (ISO)</i> ⚠ Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 23560-59-0 EINECS: 245-737-0 RTECS: TB8545000	<i>heptenophos (ISO)</i> ⚠ Acute Tox. 3, H301; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 24017-47-8 EINECS: 245-986-5 RTECS: TF5635000	<i>triazophos (ISO)</i> ⚠ Acute Tox. 3, H301; Acute Tox. 1, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312	<0.1%

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CAS: 41198-08-7 EINECS: 255-255-2 RTECS: TE 6975000	profenofos (ISO) ☠ Acute Tox. 2, H310; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<0.1%
CAS: 52918-63-5 EINECS: 258-256-6 RTECS: GZ1233000	Deltamethrin (ISO) ☠ Acute Tox. 3, H301; Acute Tox. 3, H331; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 79538-32-2 RTECS: GZ1227850	Tefluthrin ☠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 1, H330; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 80844-07-1 ELINCS: 407-980-2 RTECS: DA0670000	Etofenprox (ISO) ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	<0.1%
CAS: 82657-04-3 RTECS: GZ1227800	Bifenthrin ☠ Acute Tox. 2, H300; Acute Tox. 3, H331; ☠ Carc. 2, H351; STOT RE 1, H372; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 122453-73-0 EC number: 602-782-4 RTECS: UX9347200	Chlorfenapyr (ISO) ☠ Acute Tox. 3, H331; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Acute Tox. 4, H302	<0.1%
CAS: 153233-91-1 RTECS: RP6795100	Etoazol (ISO) ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:** In case of unconsciousness place patient in recovery position for transport.

##### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water.

##### · **After swallowing:**

Rinse mouth. Do not induce vomiting.

Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Open and handle receptacle with care.  
Ensure good ventilation/extraction at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.

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- Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
  - **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 108-88-3 Toluene**

WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 191 mg/m<sup>3</sup>, 50 ppm  
Sk

**CAS: 298-02-2 Phorate (ISO)**

WEL Short-term value: 0.2 mg/m<sup>3</sup>  
Long-term value: 0.05 mg/m<sup>3</sup>  
Sk

**CAS: 2921-88-2 Chlorpyrifos (ISO)**

WEL Short-term value: 0.6 mg/m<sup>3</sup>  
Long-term value: 0.2 mg/m<sup>3</sup>  
Sk

**CAS: 3689-24-5 sulfotep (ISO)**

WEL Long-term value: 0.1 mg/m<sup>3</sup>  
Sk

- **Additional information:** Lists used were valid at the time of SDS preparation.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

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**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

**· Material of gloves**

Viton™ gloves  
Nitrile rubber, NBR

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**

Tightly sealed goggles

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Petrol-like
Odour threshold:	Not determined.

· pH-value: Not determined.

**· Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	>35 °C

· Flash point: <23 °C

· Flammability (solid, gas): Not determined.

· Ignition temperature: Not determined

· Decomposition temperature: Not determined.

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· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Not determined. Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b> · <b>Relative density</b> · <b>Vapour density</b> · <b>Evaporation rate</b>	Not determined. Not determined. Not determined. Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Stable under normal conditions.  
No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** May form flammable/explosive vapour-air mixture.
- **10.4 Conditions to avoid**  
Sources of ignition  
Heat.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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**· LD/LC50 values relevant for classification:****CAS: 108-88-3 Toluene**

Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	LC50/4 h	49 mg/l (rat)

**CAS: 298-02-2 Phorate (ISO)**

Oral	LD50	2 mg/kg (rat)
Dermal	LD50	2.5 mg/kg (rat)
Inhalative	LC50/4 h	0.0055 mg/l (rat)
	LD 50 (Intraperitoneal)	1.98 mg/kg (rat)
	LD 50 (Intravenous)	1.2 mg/kg (rat)

**CAS: 2921-88-2 Chlorpyrifos (ISO)**

Oral	LD50	82 mg/kg (rat)
Dermal	(LD50)	2,000 mg/kg (rabbit)
	LD 50 (Intraperitoneal)	192 mg/kg (mouse)

**CAS: 3689-24-5 sulfotep (ISO)**

Oral	LD50	5 mg/kg (rat)
Dermal	LD50	20 mg/kg (rabbit)
Inhalative	LC50/4 h	0.038 mg/l (rat)

**CAS: 5598-13-0 Chlorpyrifos-methyl**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	3,713 mg/kg (rat)
		>2,000 mg/kg (rabbit)
Inhalative	(LC50/4h)	>0.67 mg/l (rat)

**CAS: 7786-34-7 mevinphos (ISO)**

Oral	LD50	3 mg/kg (rat)
Dermal	LD50	4.2 mg/kg (rat)
		4.7 mg/kg (rabbit)
	LD 50 (Intraperitoneal)	0.8 mg/kg (rat)

**CAS: 13071-79-9 terbufos (ISO)**

Oral	LD50	1.6 mg/kg (rat)
Dermal	LD50	7.4 mg/kg (rat)
Inhalative	LC50/4 h	0.0061 mg/l (rat)

**CAS: 41198-08-7 profenofos (ISO)**

Oral	LD50	358 mg/kg (rat)
Dermal	LD50	192 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/l (rat)
	LD 50 (Intraperitoneal)	520 mg/kg (rat)

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**CAS: 52918-63-5 Deltamethrin (ISO)**

Oral	LD50	87 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****CAS: 108-88-3 Toluene**

EC50/72h	12.5 mg/l (Algae)
LC50/96 h	31.7 mg/l (fish)

**CAS: 540-84-1 2,2,4-Trimethylpentane**

EC50/48 h	0.38 mg/l (daphnia)
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**CAS: 298-02-2 Phorate (ISO)**

LC50/48	0.014 mg/l (crustacean)
EC50/48 h	0.01 mg/l (crustacean)
LC50/96 h	0.0101 mg/l (fish)

**CAS: 2921-88-2 Chlorpyrifos (ISO)**

LC50/48	0.0017 mg/l (daphnia)
EC50/96h	0.76 mg/l (Algae)
LC50/96 h	0.0043 mg/l (fish)

**CAS: 3689-24-5 sulfotep (ISO)**

EC50/48 h	0.0025 mg/l (crustacean)
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LC50/96 h	0.178 mg/l (fish)
<b>CAS: 5598-13-0 Chlorpyrifos-methyl</b>	
LC50/48	0.000354 mg/l (crustacean)
EC50/48 h	0.00068 mg/l (crustacean)
LC50/96 h	0.678 mg/l (fish)
<b>CAS: 7786-34-7 mevinphos (ISO)</b>	
LC50/48	0.033 mg/l (crustacean)
EC50/48 h	0.0003 mg/l (crustacean)
LC50/96 h	0.0745 mg/l (fish)
<b>CAS: 13071-79-9 terbufos (ISO)</b>	
LC50/48	0.007 mg/l (crustacean)
EC50/48 h	0.0063 mg/l (crustacean)
LC50/96 h	0.0044 mg/l (fish)
<b>CAS: 41198-08-7 profenofos (ISO)</b>	
EC50/48 h	>0.5 mg/l (daphnia)
LC50/96 h	0.0016 mg/l (crustacean) >0.08 mg/l (fish)
<b>CAS: 52918-63-5 Deltamethrin (ISO)</b>	
EC50/48 h	0.000165 mg/l (crustacean)
EC50/72h	2.56 mg/l (Algae)
LC50/96 h	0.00186 mg/l (fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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Printing date 27.01.2021

Version number 1

Revision: 26.01.2021




**Product name: GC PestiMix 1 10 µg/mL in Isooctane:Toluene (50:50)**

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

- |                          |   |
|--------------------------|---|
| · <b>14.1 UN-Number</b>  | UN1993  |
| · <b>ADR, IMDG, IATA</b> | 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS |
| · <b>ADR</b>             | FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), MARINE POLLUTANT               |
| · <b>IMDG</b>            | FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)                                 |
| · <b>IATA</b>            | FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)                                 |
- 
- |   |                      |
|---|----------------------|
| · <b>14.3 Transport hazard class(es)</b>  |                      |
| · <b>ADR, IMDG</b>  |                      |
|   |                      |
| · <b>Class</b>  | 3 Flammable liquids. |
| · <b>Label</b>  | 3                    |
- 
- |   |                      |
|---|----------------------|
| · <b>IATA</b>   |                      |
|  |                      |
| · <b>Class</b>  | 3 Flammable liquids. |
| · <b>Label</b>  | 3                    |
- 
- |                             |    |
|-----------------------------|----|
| · <b>14.4 Packing group</b> | II |
| · <b>ADR, IMDG, IATA</b>    |    |
- 
- |                                      |  |
|--------------------------------------|--|
| · <b>14.5 Environmental hazards:</b> | Product contains environmentally hazardous substances:<br>2,2,4-Trimethylpentane |
| · <b>Marine pollutant:</b>           | Symbol (fish and tree)   |
| · <b>Special marking (ADR):</b>      | Symbol (fish and tree)   |
- 
- |  |                             |
|--|-----------------------------|
| · <b>14.6 Special precautions for user</b> | Warning: Flammable liquids. |
|--|-----------------------------|

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· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E, <u>S-E</u>
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E1 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

CAS: 76-44-8	Heptachlor (ISO)	Annex I Part A Annex IV
CAS: 118-74-1	Hexachlorobenzene	Annex I Part A Annex III Part B Annex IV
CAS: 319-84-6	Alpha-BHC/Alpha-HCH	Annex I Part A Annex IV
CAS: 2385-85-5	Mirex	Annex I Part A Annex IV

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 48

· **Regulation (EU) No 649/2012**

CAS: 62-73-7	Dichlorvos (ISO)	Annex I Part 1 Annex I Part 2
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CAS: 298-02-2	Phorate (ISO)	Annex I Part 1 Annex I Part 3
CAS: 13071-79-9	terbufos (ISO)	Annex I Part 1
CAS: 24017-47-8	triazophos (ISO)	Annex I Part 1

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 2: Acute toxicity - oral – Category 2

Acute Tox. 3: Acute toxicity - oral – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Lact.: Reproductive toxicity – effects on or via lactation

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

· **Sources**

*Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.*

· **Data compared to the previous version altered.** All sections have been updated.

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· **Product name:** GC PestiMix 2 10 µg/mL in Isooctane:Toluene (50:50)

· **Part number:** DRE-A50000293IT

· **UFI:** U4PF-60NG-T007-D611

#### · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· **Application of the substance / the mixture** Reference material for laboratory use only

#### · 1.3 Details of the supplier of the safety data sheet

##### · **Manufacturer/Supplier:**

LGC Limited

Queens Road

Teddington

Middlesex TW11 0LY

UNITED KINGDOM

Tel : +44 (0) 20 8943 7000

Fax : +44 (0) 20 8943 2767

eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

#### · Further information obtainable from:

Product safety department

eMail : sds-request@lgcgroup.com

#### · 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2      H361 Suspected of damaging fertility or the unborn child.

STOT RE 2      H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
STOT SE 3      H336 May cause drowsiness or dizziness.

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms



GHS02   GHS07   GHS08   GHS09

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Toluene  
2,2,4-Trimethylpentane

#### · Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310      IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353      IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P405      Store locked up.  
P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Also contains substances at levels not considered to be hazardous.

#### · **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 RTECS: XS 5250000	Toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 540-84-1 EINECS: 208-759-1 RTECS: SA 3320000	2,2,4-Trimethylpentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 56-38-2 EINECS: 200-271-7 RTECS: TF 4550000	parathion (ISO) Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 2, H330; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 62-73-7 EINECS: 200-547-7 RTECS: TC0350000	Dichlorvos (ISO) Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 1, H330; Aquatic Acute 1, H400; Skin Sens. 1, H317	<0.1%
CAS: 63-25-2 EINECS: 200-555-0 RTECS: FC 5950000	carbaryl (ISO) Carc. 2, H351; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H332	<0.1%
CAS: 121-75-5 EINECS: 204-497-7 RTECS: WM 8400000	Malathion (ISO) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	<0.1%
CAS: 300-76-5 EINECS: 206-098-3 RTECS: TB9450000	Naled (ISO) Acute Tox. 3, H301; Acute Tox. 3, H311; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<0.1%
CAS: 465-73-6 EINECS: 207-366-2 RTECS: IO1925000	Isodrin Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 732-11-6 EINECS: 211-987-4 RTECS: TE 2275000	phosmet (ISO) Acute Tox. 3, H301; Acute Tox. 2, H330; Repr. 2, H361f; STOT SE 1, H370; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312	<0.1%
CAS: 2104-96-3 EINECS: 218-277-3 RTECS: TE7175000	bromophos (ISO) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.1%
CAS: 2310-17-0 EINECS: 218-996-2 RTECS: TD 5175000	Phosalone Acute Tox. 3, H301; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.1%
CAS: 2642-71-9 EINECS: 220-147-6 RTECS: TD8400000	azinphos-ethyl (ISO) Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 22781-23-3 EINECS: 245-216-8 RTECS: FC1140000	Bendiocarb (ISO) Acute Tox. 2, H300; Acute Tox. 3, H311; Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

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CAS: 29232-93-7 EINECS: 249-528-5 RTECS: TF 1410000	pirimiphos-methyl (ISO) ⚠ STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.1%
CAS: 34256-82-1 EINECS: 251-899-3 RTECS: AB5457000	Acetochlor ⚠ Carc. 2, H351; Repr. 2, H361f; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<0.1%
CAS: 74070-46-5 EINECS: 277-704-1 RTECS: CX9858650	aclonifen (ISO) ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:** In case of unconsciousness place patient in recovery position for transport.

##### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water.

##### · After swallowing:

Rinse mouth. Do not induce vomiting.

Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

#### · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

#### · 5.3 Advice for firefighters

##### · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

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### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

Ensure good ventilation/extraction at the workplace.

Prevent formation of aerosols.

#### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

#### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

##### · Information about storage in one common storage facility: Store away from foodstuffs.

##### · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

#### · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

#### · Additional information about design of technical facilities: No further data; see item 7.

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**· Ingredients with limit values that require monitoring at the workplace:****CAS: 108-88-3 Toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 191 mg/m <sup>3</sup> , 50 ppm
Sk	

**· Additional information:** Lists used were valid at the time of SDS preparation.**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

**· Material of gloves**Viton<sup>TM</sup> gloves

Nitrile rubber, NBR

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**

Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form: Liquid  
Colour: Colourless

· Odour: Petrol-like

· Odour threshold: Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/freezing point: Not determined.  
Not determined.

Initial boiling point and boiling range: >35 °C

· Flash point: <23 °C

· Flammability (solid, gas): Not determined.

· Ignition temperature: Not determined

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

##### · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not determined.

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

##### · Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· 9.2 Other information: No further relevant information available.

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### SECTION 10: Stability and reactivity

**· 10.1 Reactivity***Stable under normal conditions.**No further relevant information available.***· 10.2 Chemical stability** *Stable under normal conditions.***· Thermal decomposition / conditions to be avoided:***Formation of toxic gases is possible during heating or in case of fire.***· 10.3 Possibility of hazardous reactions** *May form flammable/explosive vapour-air mixture.***· 10.4 Conditions to avoid***Sources of ignition**Heat.***· 10.5 Incompatible materials:** *Strong oxidizing agents.***· 10.6 Hazardous decomposition products:***Formation of toxic gases is possible during heating or in case of fire.*

### SECTION 11: Toxicological information

**· 11.1 Information on toxicological effects***· Acute toxicity Based on available data, the classification criteria are not met.***· LD/LC50 values relevant for classification:****CAS: 108-88-3 Toluene**

Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	LC50/4 h	49 mg/l (rat)

**CAS: 56-72-4 Coumaphos (ISO)**

Oral	LD50	13 mg/kg (rat)
Dermal	LD50	860 mg/kg (rat)
		500 mg/kg (rabbit)
	LD 50 (Intraperitoneal)	7.5 mg/kg (rat)

**CAS: 72-20-8 Endrin (ISO)**

Oral	LD50	3 mg/kg (rat)
Dermal	LD50	12 mg/kg (rat)
		60 mg/kg (rabbit)

**CAS: 2310-17-0 Phosalone**

Oral	LD50	85 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rabbit)

**CAS: 29232-93-7 pirimiphos-methyl (ISO)**

Oral	LD50	1,414 mg/kg (ATE)
		1,250 mg/kg (rat)
Dermal	(LD50)	2,000 mg/kg (rabbit)

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**CAS: 96182-53-5 Tebupirimfos**

Oral	LD50	1.3 mg/kg (rat)
Dermal	LD50	9.4 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****CAS: 108-88-3 Toluene**

EC50/72h	12.5 mg/l (Algae)
LC50/96 h	31.7 mg/l (fish)

**CAS: 540-84-1 2,2,4-Trimethylpentane**

EC50/48 h	0.38 mg/l (daphnia)
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**CAS: 56-72-4 Coumaphos (ISO)**

LC50/48	0.00014 mg/l (crustacean)
EC50/48 h	0.000146 mg/l (crustacean)
LC50/96 h	0.876 mg/l (fish)

**CAS: 72-20-8 Endrin (ISO)**

LC50/48	0.0047 mg/l (crustacean)
EC50/48 h	0.02 mg/l (crustacean)
LC50/96 h	0.000505 mg/l (fish)

**CAS: 121-75-5 Malathion (ISO)**

LC50/48	0.033 mg/l (crustacean)
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LC50/96 h	0.28 mg/l (fish)
<b>CAS: 2310-17-0 Phosalone</b>	
LC50/48	0.474 mg/l (crustacean)
EC50/72h	0.88 mg/l (Algae)
LC50/96 h	0.15 mg/l (fish)
<b>CAS: 29232-93-7 pirimiphos-methyl (ISO)</b>	
LC50/24	0.00027 mg/L (crustacean)
LC50/96 h	0.782 mg/l (fish)
<b>CAS: 96182-53-5 Tebupirimfos</b>	
EC50/96h	1.8 mg/l (Algae)
LC50/96 h	0.00008 mg/l (daphnia)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

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### SECTION 14: Transport information

· 14.1 UN-Number	UN1993
· ADR, IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS
· ADR	FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), MARINE POLLUTANT
· IMDG	FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)
· IATA	FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
	
	
· Class	3 Flammable liquids.
· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	II
· ADR, IMDG, IATA	
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances:
· Marine pollutant:	2,2,4-Trimethylpentane
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-E
· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

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· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
  - E1 Hazardous to the Aquatic Environment
  - P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

**· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

CAS: 50-29-3	DDT	Annex I Part A Annex IV
CAS: 72-20-8	Endrin (ISO)	Annex I Part A Annex IV
CAS: 115-32-2	Dicofol (ISO)	Annex I Part A
CAS: 319-85-7	Beta-BHC/Beta-HCH	Annex I Part A Annex IV

**· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

CAS: 121-14-2	2,4-Dinitrotoluene	Sunset date: 2015-08-21
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**· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48****· Regulation (EU) No 649/2012**

CAS: 56-38-2	parathion (ISO)	Annex I Part 1 Annex I Part 3
CAS: 62-73-7	Dichlorvos (ISO)	Annex I Part 1 Annex I Part 2
CAS: 63-25-2	carbaryl (ISO)	Annex I Part 1 Annex I Part 2
CAS: 121-75-5	Malathion (ISO)	Annex I Part 1
CAS: 300-76-5	Naled (ISO)	Annex I Part 1 Annex I Part 2
CAS: 2310-17-0	Phosalone	Annex I Part 1 Annex I Part 2
CAS: 2642-71-9	azinphos-ethyl (ISO)	Annex I Part 1

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CAS: 34256-82-1 Acetochlor

Annex I Part 1

Annex I Part 2

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 2: Acute toxicity - oral – Category 2

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 3: Acute toxicity - dermal – Category 3

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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· **Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· **Data compared to the previous version altered.** All sections have been updated.

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: **GC PestiMix 3 10 µg/mL in Isooctane:Toluene (50:50)**

Part number: DRE-A50000294IT

UFI: M7TJ-N09G-600X-H930

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Reference material for laboratory use only

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

LGC Limited

Queens Road

Teddington

Middlesex TW11 0LY

UNITED KINGDOM

Tel : +44 (0) 20 8943 7000

Fax : +44 (0) 20 8943 2767

eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

#### Further information obtainable from:

Product safety department

eMail : sds-request@lgcgroup.com

#### 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.  
 STOT SE 3      H336 May cause drowsiness or dizziness.

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms



GHS02   GHS07   GHS08   GHS09

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Toluene  
 Clodinafop-propargyl (ISO)  
 2,2,4-Trimethylpentane

#### · Hazard statements

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H361 Suspected of damaging fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H304 May be fatal if swallowed and enters airways.  
 H410 Very toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P280      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P301+P310      IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P303+P361+P353      IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P405      Store locked up.  
 P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

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· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Also contains substances at levels not considered to be hazardous.

#### · **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 RTECS: XS 5250000	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 540-84-1 EINECS: 208-759-1 RTECS: SA 3320000	2,2,4-Trimethylpentane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 298-00-0 EINECS: 206-050-1 RTECS: TG 0175000	Parathion-methyl (ISO) ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 1, H330; ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 2588-04-7 RTECS: TD9100000	Phorate sulfone ⚠ Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; ⚠ STOT SE 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 13593-03-8 EINECS: 237-031-6 RTECS: TF 6125000	quinalphos (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ STOT SE 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312	<0.1%
CAS: 23103-98-2 EINECS: 245-430-1 RTECS: EZ 9100000	Pirimicarb ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 25311-71-1 EINECS: 246-814-1 RTECS: VO4395500	Isofenphos (ISO) ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ STOT SE 1, H370; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 52645-53-1 EINECS: 258-067-9 RTECS: GZ 1255000	Permethrin (ISO) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.1%
CAS: 66230-04-4 RTECS: CY1576367	Esfenvalerate (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 67129-08-2 EINECS: 266-583-0 RTECS: AB5442000	Metazachlor ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 68359-37-5 EINECS: 269-855-7 RTECS: -	cyfluthrin ⚠ Acute Tox. 2, H300; Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 72490-01-8 EINECS: 276-696-7 RTECS: FD0423000	Fenoxycarb ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

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CAS: 91465-08-6 ELINCS: 415-130-7 RTECS: GZ1227780	Lambda-cyhalothrin (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H312	<0.1%
CAS: 96489-71-3 ELINCS: 405-700-3 RTECS: UR6149000	pyridaben (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 105512-06-9 RTECS: -	Clodinafop-propargyl (ISO) ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	<0.1%
CAS: 125225-28-7 RTECS: GY4706000	Ipconazole ⚠ Repr. 2, H361d; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.1%
CAS: 142459-58-3 RTECS: AC 2845000	Flufenacet (ISO) ⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

##### · After inhalation:

Supply fresh air and call a doctor.

In case of unconsciousness place patient in recovery position for transport.

##### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

##### · After eye contact: Rinse opened eye for several minutes under running water.

##### · After swallowing:

Rinse mouth. Do not induce vomiting.

Call for a doctor immediately.

#### · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

#### · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### · For safety reasons unsuitable extinguishing agents: Water with full jet

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- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Open and handle receptacle with care.  
Ensure good ventilation/extraction at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

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· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:****CAS: 108-88-3 Toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 191 mg/m <sup>3</sup> , 50 ppm
Sk	

· **Additional information:** Lists used were valid at the time of SDS preparation.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- **Material of gloves**

Viton™ gloves

Nitrile rubber, NBR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**· Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>· Odour:</b>	Petrol-like
<b>· Odour threshold:</b>	Not determined.

**· pH-value:** Not determined.**· Change in condition**

<b>Melting point/freezing point:</b>	Not determined.
<b>Initial boiling point and boiling range:</b>	>35 °C

**· Flash point:** <23 °C**· Flammability (solid, gas):** Not determined.**· Ignition temperature:** Not determined**· Decomposition temperature:** Not determined.**· Auto-ignition temperature:** Product is not selfigniting.**· Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.**· Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**· Vapour pressure:** Not determined.

<b>· Density:</b>	Not determined.
<b>· Relative density</b>	Not determined.
<b>· Vapour density</b>	Not determined.
<b>· Evaporation rate</b>	Not determined.

**· Solubility in / Miscibility with water:** Not miscible or difficult to mix.**· Partition coefficient: n-octanol/water:** Not determined.

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- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Stable under normal conditions.  
No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** May form flammable/explosive vapour-air mixture.
- **10.4 Conditions to avoid**  
Sources of ignition  
Heat.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****CAS: 108-88-3 Toluene**

Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	LC50/4 h	49 mg/l (rat)

**CAS: 2588-04-7 Phorate sulfone**

Oral	LD50	1.2 mg/kg (rat)
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**CAS: 13593-03-8 quinalphos (ISO)**

Oral	LD50	71 mg/kg (rat)
Dermal	LD50	1,750 mg/kg (rat)
Inhalative	LC50/4 h	0.45 mg/l (rat)

**CAS: 52645-53-1 Permethrin (ISO)**

Oral	LD50	383 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	485 mg/l (rat)

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**CAS: 66230-04-4 Esfenvalerate (ISO)**

Oral	LD50	325 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

**CAS: 68359-37-5 cyfluthrin**

Oral	LD50	900 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
Inhalative	(LC50/4h)	0.49 mg/l (rat)

**CAS: 91465-08-6 Lambda-cyhalothrin (ISO)**

Oral	LD50	56 mg/kg (rat)
Dermal	LD50	632 mg/kg (rat)
	LD 50 (Intravenous)	1.95 mg/kg (rat)

**CAS: 96489-71-3 pyridaben (ISO)**

Oral	LD50	570 mg/kg (rat)
Dermal	(LD50)	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.62 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**• **12.1 Toxicity**• **Aquatic toxicity:****CAS: 108-88-3 Toluene**

EC50/72h	12.5 mg/l (Algae)
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LC50/96 h	31.7 mg/l (fish)
<b>CAS: 540-84-1 2,2,4-Trimethylpentane</b>	
EC50/48 h	0.38 mg/l (daphnia)
<b>CAS: 13593-03-8 quinalphos (ISO)</b>	
LC50/48	0.00066 mg/l (daphnia)
LC50/96 h	0.005 mg/l (fish)
<b>CAS: 52645-53-1 Permethrin (ISO)</b>	
LC50/48	0.00275 mg/l (crustacean)
LC50/96 h	0.0072 mg/l (fish)
<b>CAS: 66230-04-4 Esfenvalerate (ISO)</b>	
LC50/48	0.000242 mg/l (crustacean)
EC50/48 h	0.00015 mg/l (crustacean)
LC50/96 h	0.00028 mg/l (fish)
<b>CAS: 68359-37-5 cyfluthrin</b>	
LC50/48	0.000085 mg/l (crustacean)
EC50/48 h	0.000083 mg/l (crustacean)
EC50/96h	48.5 mg/l (Algae)
LC50/96 h	0.000975 mg/l (fish)
<b>CAS: 91465-08-6 Lambda-cyhalothrin (ISO)</b>	
EC50/48 h	0.000305 mg/l (daphnia)
LC50/96 h	0.0005 mg/l (fish)
<b>CAS: 96489-71-3 pyridaben (ISO)</b>	
EC50/48 h	0.000775 mg/l (crustacean)
LC50/96 h	0.00298 mg/l (fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· **Uncleaned packaging:**

· **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

· **ADR**

UN1993

1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), MARINE POLLUTANT

· **IMDG**

· **IATA**

FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3

· **IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:

2,2,4-Trimethylpentane

· **Marine pollutant:**

Symbol (fish and tree)

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· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E1 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

**REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

CAS: 58-89-9	Lindane	Annex I Part A Annex IV
CAS: 608-93-5	Pentachlorobenzene	Annex I Part A Annex III Part B Annex IV
CAS: 959-98-8	alpha-Endosulfan	Annex I Part A Annex IV

**REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48****Regulation (EU) No 649/2012**

CAS: 298-00-0	Parathion-methyl (ISO)	Annex I Part 1 Annex I Part 2 Annex I Part 3
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CAS: 52645-53-1	Permethrin (ISO)	Annex I Part I
CAS: 68359-37-5	cyfluthrin	Annex I Part I

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 2: Acute toxicity - oral – Category 2

Acute Tox. 3: Acute toxicity - oral – Category 3

Acute Tox. 4: Acute toxicity - dermal – Category 4

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

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· Data compared to the previous version altered. All sections have been updated.

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: **GC PestiMix 4 10 µg/mL in Isooctane:Toluene (50:50)**

Part number: DRE-A50000295IT

UFI: U4PF-60NG-T007-D611

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Reference material for laboratory use only

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

LGC Limited

Queens Road

Teddington

Middlesex TW11 0LY

UNITED KINGDOM

Tel : +44 (0) 20 8943 7000

Fax : +44 (0) 20 8943 2767

eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

#### Further information obtainable from:

Product safety department

eMail : sds-request@lgcgroup.com

#### 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2

H315 Causes skin irritation.

STOT SE 3

H336 May cause drowsiness or dizziness.

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**· 2.2 Label elements****· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**· Hazard pictograms**

GHS02

GHS07

GHS08

GHS09

**· Signal word Danger****· Hazard-determining components of labelling:**

Toluene

2,2,4-Trimethylpentane

**· Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

**· Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Also contains substances at levels not considered to be hazardous.

#### · **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 RTECS: XS 5250000	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 540-84-1 EINECS: 208-759-1 RTECS: SA 3320000	2,2,4-Trimethylpentane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 563-12-2 EINECS: 209-242-3 RTECS: TE 4550000	ethion (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 834-12-8 EINECS: 212-634-7 RTECS: XY9100000	ametryn (ISO) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<0.1%
CAS: 16752-77-5 EINECS: 240-815-0 RTECS: AK 2975000	Methomyl (ISO) ⚠ Acute Tox. 2, H300; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 22224-92-6 EINECS: 244-848-1 RTECS: TB 3675000	Fenamiphos (ISO) ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Eye Irrit. 2, H319	<0.1%
CAS: 57960-19-7 RTECS: QJ5375500	Acequinocyl ⚠ STOT SE 1, H370; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	<0.1%
CAS: 120068-37-3 EINECS: 424-610-5 RTECS: UQ4430250	Fipronil (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:** In case of unconsciousness place patient in recovery position for transport.

##### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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- **After swallowing:**  
Rinse mouth. Do not induce vomiting.  
Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Open and handle receptacle with care.  
Ensure good ventilation/extraction at the workplace.  
Prevent formation of aerosols.

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**· Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

**· Information about storage in one common storage facility: Store away from foodstuffs.****· Further information about storage conditions:**

Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

**· 7.3 Specific end use(s) No further relevant information available.**

### SECTION 8: Exposure controls/personal protection

**· 8.1 Control parameters**

· **Additional information about design of technical facilities:** No further data; see item 7.

**· Ingredients with limit values that require monitoring at the workplace:****CAS: 108-88-3 Toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 191 mg/m <sup>3</sup> , 50 ppm
Sk	

· **Additional information:** Lists used were valid at the time of SDS preparation.

**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

*The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374*

**Protective gloves****· Material of gloves**

Nitrile rubber, NBR

Viton™ gloves

**· Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**· Eye protection:****Tightly sealed goggles**

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

**Form:** Liquid  
**Colour:** Colourless

**· Odour:** Petrol-like

**· Odour threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/freezing point:** Not determined.  
Not determined.

**Initial boiling point and boiling range:** >35 °C

**· Flash point:** <23 °C

**· Flammability (solid, gas):** Not determined.

**· Ignition temperature:** Not determined

**· Decomposition temperature:** Not determined.

**· Auto-ignition temperature:** Product is not selfigniting.

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· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Stable under normal conditions.  
No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** May form flammable/explosive vapour-air mixture.
- **10.4 Conditions to avoid**  
Sources of ignition  
Heat.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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**· LD/LC50 values relevant for classification:****CAS: 108-88-3 Toluene**

Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	LC50/4 h	49 mg/l (rat)

**CAS: 563-12-2 ethion (ISO)**

Oral	LD50	208 mg/kg (rat)
Dermal	LD50	62 mg/kg (rat)
	LD 50 (Intraperitoneal)	26 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****CAS: 108-88-3 Toluene**

EC50/72h	12.5 mg/l (Algae)
LC50/96 h	31.7 mg/l (fish)

**CAS: 540-84-1 2,2,4-Trimethylpentane**

EC50/48 h	0.38 mg/l (daphnia)
-----------	---------------------

**CAS: 563-12-2 ethion (ISO)**

LC50/48	0.0028 mg/l (crustacean)
EC50/48 h	0.0028 mg/l (crustacean)
LC50/96 h	0.232 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
  - **ADR, IMDG, IATA**
  - **ADR**
  - **IMDG**
  - **IATA**
- UN1993  
1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS  
FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), MARINE POLLUTANT  
FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)

- **14.3 Transport hazard class(es)**

- **ADR, IMDG**



- **Class**

3 Flammable liquids.

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· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: 2,2,4-Trimethylpentane
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E, <u>S-E</u>
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E1 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

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· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

CAS: 87-68-3	Hexachlorobuta-1,3-diene	Annex I Part A Annex III Part B Annex IV
CAS: 60-57-1	Dieldrin (ISO)	Annex I Part A Annex IV
CAS: 309-00-2	Aldrin (ISO)	Annex I Part A Annex IV

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

CAS: 84-74-2	Dibutyl phthalate	Sunset date: 2015-02-21
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· **REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction:** 3, 48· **Regulation (EU) No 649/2012**

CAS: 563-12-2	ethion (ISO)	Annex I Part 1
CAS: 834-12-8	ametryn (ISO)	Annex I Part 1
CAS: 16752-77-5	Methomyl (ISO)	Annex I Part 1
CAS: 120068-37-3	Fipronil (ISO)	Annex I Part 1 Annex I Part 2

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*Flam. Liq. 2: Flammable liquids – Category 2*  
*Acute Tox. 3: Acute toxicity - oral – Category 3*  
*Acute Tox. 4: Acute toxicity - oral – Category 4*  
*Acute Tox. 2: Acute toxicity - dermal – Category 2*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*Repr. 2: Reproductive toxicity – Category 2*  
*Repr. 2: Reproductive toxicity – Category 2*  
*STOT SE 1: Specific target organ toxicity (single exposure) – Category 1*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*  
*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*  
*Asp. Tox. 1: Aspiration hazard – Category 1*  
*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

**• Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

- **Data compared to the previous version altered.** All sections have been updated.

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

· **Product name:** GC PestiMix 5 10 µg/mL in Isooctane:Toluene (50:50)

· **Part number:** DRE-A50000296IT

· **UFI:** U4PF-60NG-T007-D611

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

· **Application of the substance / the mixture** Reference material for laboratory use only

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

LGC Limited

Queens Road

Teddington

Middlesex TW11 0LY

UNITED KINGDOM

Tel : +44 (0) 20 8943 7000

Fax : +44 (0) 20 8943 2767

eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

#### Further information obtainable from:

Product safety department

eMail : sds-request@lgcgroup.com

#### 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2

H315 Causes skin irritation.

STOT SE 3

H336 May cause drowsiness or dizziness.

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms



GHS02



GHS07



GHS08



GHS09

#### · Signal word Danger

#### · Hazard-determining components of labelling:

Toluene

2,2,4-Trimethylpentane

#### · Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

#### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Also contains substances at levels not considered to be hazardous.

#### · **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 RTECS: XS 5250000	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 540-84-1 EINECS: 208-759-1 RTECS: SA 3320000	2,2,4-Trimethylpentane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 55-38-9 EINECS: 200-231-9 RTECS: TF 9625000	Fenthion (ISO) ⚠ Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	<0.1%
CAS: 7696-12-0 EINECS: 231-711-6 RTECS: GZ1730000	Tetramethrin ⚠ Carc. 2, H351; STOT SE 2, H371; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.1%
CAS: 10453-86-8 EINECS: 233-940-7 RTECS: GZ 1310000	resmethrin (ISO) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	<0.1%
CAS: 31218-83-4 EINECS: 250-517-2 RTECS: GQ 4750000	propetamphos (ISO) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 31972-44-8 EINECS: 244-848-1 RTECS: -	Fenamiphos-sulfone ⚠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Eye Irrit. 2, H319	<0.1%
CAS: 61949-77-7 EINECS: 263-347-9 RTECS: GZ1251580	trans-Permethrin ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<0.1%
CAS: 118134-30-8 RTECS: JH2940000	Spiroxamine ⚠ Repr. 2, H361d; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:** In case of unconsciousness place patient in recovery position for transport.

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- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse mouth. Do not induce vomiting.  
Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.

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- Open and handle receptacle with care.
- Ensure good ventilation/extraction at the workplace.
- Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.
  - Store only in the original receptacle unless other advice is given on the CoA.
  - Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 108-88-3 Toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 191 mg/m <sup>3</sup> , 50 ppm
Sk	

- **Additional information:** Lists used were valid at the time of SDS preparation.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the skin.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

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**· Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

**· Material of gloves**

Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**

Tightly sealed goggles

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.

· pH-value: Not determined.

**· Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	>35 °C

· Flash point: <23 °C

· Flammability (solid, gas): Not determined.

· Ignition temperature: Not determined

· Decomposition temperature: Not determined.

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· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Not determined. Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b> · <b>Relative density</b> · <b>Vapour density</b> · <b>Evaporation rate</b>	Not determined. Not determined. Not determined. Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not determined. Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Stable under normal conditions.  
No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** May form flammable/explosive vapour-air mixture.
- **10.4 Conditions to avoid**  
Sources of ignition  
Heat.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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**· LD/LC50 values relevant for classification:****CAS: 108-88-3 Toluene**

Oral	(LD50)	636 mg/kg (rat)
Dermal	LD50	12,200 mg/kg (rabbit)
Inhalative	LC50/4 h	49 mg/l (rat)

**CAS: 10453-86-8 resmethrin (ISO)**

Oral	LD50	1,244 mg/kg (rat)
Dermal	LD50	3,000 mg/kg (rat)

**CAS: 61949-77-7 trans-Permethrin**

Oral	LD50	1,684 mg/kg (rat)
	LD 50 (Intraperitoneal)	>800 mg/kg (mouse)
	LD 50 (Intravenous)	>135 mg/kg (mouse)

**· Primary irritant effect:****· Skin corrosion/irritation**

Causes skin irritation.

**· Serious eye damage/irritation** Based on available data, the classification criteria are not met.**· Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**· Additional toxicological information:****· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Repr. 2

**· Germ cell mutagenicity** Based on available data, the classification criteria are not met.**· Carcinogenicity** Based on available data, the classification criteria are not met.**· Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**· STOT-single exposure**

May cause drowsiness or dizziness.

**· STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**· Aspiration hazard**

May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****CAS: 108-88-3 Toluene**

EC50/72h	12.5 mg/l (Algae)
LC50/96 h	31.7 mg/l (fish)

**CAS: 540-84-1 2,2,4-Trimethylpentane**

EC50/48 h	0.38 mg/l (daphnia)
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**CAS: 10453-86-8 resmethrin (ISO)**

EC50/48 h 0.05 mg/l (crustacean)

EC50/96h 0.00254 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
  - **ADR, IMDG, IATA**
  - **ADR**
  - **IMDG**
  - **IATA**
- UN1993  
1993 FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), ENVIRONMENTALLY HAZARDOUS  
FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE), MARINE POLLUTANT  
FLAMMABLE LIQUID, N.O.S. (OCTANES, TOLUENE)

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**· 14.3 Transport hazard class(es)****· ADR, IMDG**

**· Class** 3 Flammable liquids.  
**· Label** 3

**· IATA**

**· Class** 3 Flammable liquids.  
**· Label** 3

**· 14.4 Packing group**

**· ADR, IMDG, IATA** II

**· 14.5 Environmental hazards:** Product contains environmentally hazardous substances:  
2,2,4-Trimethylpentane  
**· Marine pollutant:** Symbol (fish and tree)  
**· Special marking (ADR):** Symbol (fish and tree)

**· 14.6 Special precautions for user** Warning: Flammable liquids.  
**· Hazard identification number (Kemler code):** 33  
**· EMS Number:** F-E, S-E  
**· Stowage Category** B

**· 14.7 Transport in bulk according to Annex II of  
Marpol and the IBC Code** Not applicable.

**· Transport/Additional information:**

**· ADR**  
**· Limited quantities (LQ)** 1L  
**· Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml  
**· Transport category** 2  
**· Tunnel restriction code** D/E  
**· UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES,  
TOLUENE), 3, II, ENVIRONMENTALLY HAZARDOUS

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### SECTION 15: Regulatory information

#### · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### · Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

##### · Seveso category

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

##### · REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

CAS: 143-50-0 chlordecone (ISO)

Annex I Part A  
Annex IV

##### · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

CAS: 117-81-7 Di(2-ethylhexyl) phthalate

Sunset date: 2015-02-21

##### · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48

##### · Regulation (EU) No 649/2012

CAS: 55-38-9 Fenthion (ISO)

Annex I Part 1  
Annex I Part 2

##### · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

##### · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 2: Acute toxicity - oral – Category 2  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Acute Tox. 3: Acute toxicity - inhalation – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**• Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

• **Data compared to the previous version altered.** All sections have been updated.

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