

Page 1/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

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

· 1.1 Product identifier

· Product name: Terbufos-oxon

· Part number: DRE-C17270100

• CAS Number: 56070-14-5

 $\cdot \, 1.2 \ Relevant \ identified \ uses \ of \ the \ substance \ or \ mixture \ and \ uses \ advised \ against$ 

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 OLY
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: +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS06 skull and crossbones

Acute Tox. 1 H300 Fatal if swallowed.

Acute Tox. 1 H310 Fatal in contact with skin.

Acute Tox. 1 H330 Fatal if inhaled.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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

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

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

(Contd. on page 2)



Page 2/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 1)

### · Hazard pictograms



· Signal word Danger · Hazard statements

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled. H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

*P260 Do not breathe dust/fume/gas/mist/vapours/spray.* 

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

*P320* Specific treatment is urgent (see on this label).

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.

### SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

56070-14-5 Terbufos-oxon

- · Identification number(s) None
- · RTECS: -
- · 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.

Remove breathing equipment only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

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

Seek immediate medical advice.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)



Page 3/9

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 2)

Seek immediate medical advice.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · 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 Wear protective clothing.
- · 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

Ensure good ventilation/extraction at the workplace.

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

· Information about fire - and explosion protection: Keep respiratory protective device available.

(Contd. on page 4)



Page 4/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 3)

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

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · 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 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 Butyl rubber, BR
- · 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.

(Contd. on page 5)



Page 5/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

· Eye protection: Safety glasses

(Contd. from page 4)

9.1 Information on basic physical ar	ed chemical properties	
General Information		
Appearance: Form:	Oily	
rorm: Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Not determined.	
	Not determined.	
Initial boiling point and boiling ra	nge: Not determined.	
Flash point:	<b>≤</b> 93 °C	
Flammability (solid, gas):	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
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 determined.	
Partition coefficient: n-octanol/wate	r: Not determined.	
Viscosity:		
Dynamic:	Not determined.	

(Contd. on page 6)



Page 6/9

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 5)

· 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 No dangerous reactions known.
- · 10.4 Conditions to avoid 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

Fatal if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

Oral LD50 2.2 mg/kg (mouse)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- $\cdot \textbf{12.2 Persistence and degradability} \ \textit{No further relevant information available}.$
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

(Contd. on page 7)



Page 7/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 6)

- · 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 UN3278

· ADR 3278 ORGANOPHOSPHORUS COMPOUND, LIQUID,

TOXIC, N.O.S. (Terbufos-oxon), ENVIRONMENTALLY

**HAZARDOUS** 

· IMDG, IATA ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC,

N.O.S. (Terbufos-oxon)

· 14.3 Transport hazard class(es)

 $\cdot ADR$ 



· Class 6.1 Toxic substances.

(Contd. on page 8)



Page 8/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

	(Contd. from page	
· Label	6.1	
· IMDG, IATA		
· Class	6.1 Toxic substances.	
· Label	6.1	
· 14.4 Packing group		
· ADR, IMDĞ, IATA	I	
· 14.5 Environmental hazards:	Environmentally hazardous substance, liquid	
· Special marking (ADR):	Symbol (fish and tree)	
· 14.6 Special precautions for user	Warning: Toxic substances.	
· Danger code (Kemler):	66	
· EMS Number:	F- $A$ , $S$ - $A$	
· 14.7 Transport in bulk according to Anno		
Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:		
$\cdot ADR$		
· Limited quantities (LQ)	0	
· Excepted quantities (EQ)	Code: E5	
	Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 300 ml	
· Transport category	Maximum nei quantity per outer packaging: 500 mi 1	
· Tunnel restriction code	C/E	
· UN "Model Regulation":	UN 3278 ORGANOPHOSPHORUS COMPOUND	
011 Mouet Regullion .	LIQUID, TOXIC, N.O.S. (TERBUFOS-OXON), 6.1,	
	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 Substance is not listed.
- · Seveso category

H1 ACUTE TOXIC

El Hazardous to the Aquatic Environment

- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 9)



Page 9/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 08.04.2019 Version number 1 Revision: 08.04.2019

Product name: Terbufos-oxon

(Contd. from page 8)

· 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

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

Acute Tox. 1: Acute toxicity - 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, HICLID

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

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