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

Printing date 31.01.2020

Version number 1

Revision: 31.01.2020

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

- · 1.1 Product identifier
- · Product name: 2,3,4,6-Tetrachlorophenol acetate 10 µg/mL in Isooctane
- · Part number: DRE-L1737610010
- 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
- \cdot 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM

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
- \cdot Classification according to Regulation (EC) No 1272/2008

GHS02 flame

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

GHS08 health hazard

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

GHS09 environment

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.

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GHS	07
Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
5101 SE 5	in 550 may cause arowsiness or alguness.
2.2 Label elem	
	rding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
Hazard pictogr	ams
GHS02 GH	IS07 GHS08 GHS09
011502 011	307 011308 011309
Signal word D	anger
	iining components of labelling:
2,2,4-Trimethy	lpentane
Hazard statem	
0	ammable liquid and vapour.
H315 Causes s	
•	se drowsiness or dizziness.
	atal if swallowed and enters airways.
	ic to aquatic life with long lasting effects.
Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
D2 00	smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+F	2353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin v
D 405	water/shower.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
2.3 Other haza	
	and vPvB assessment
PBT: Not appl	
IDI . Hot uppt	licable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture: consisting of the following components.

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· Dangerous components:				
EINECS: 208-759-1	2,2,4-Trimethylpentane	> 99%		
RTECS: -	2,3,4,6-Tetrachlorophenol acetate Acute Tox. 3, H301; 📀 Eye Dam. 1, H318; 🕸 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

- After inhalation:
- In case of unconsciousness place patient in recovery position for transport. Seek medical treatment in case of complaints. Take affected persons into fresh air and keep quiet.
- · 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.
- Seek immediate medical advice.
- 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures 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.

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6	3 Methods and material for containment and cleaning up:
	bsorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	ispose of contaminated material as waste according to item 13.
	nsure adequate ventilation.
	o not flush with water or aqueous cleansing agents
	4 Reference to other sections
	e Section 7 for information on safe handling.
	e Section 8 for information on personal protection equipment.
	ve Section 13 for disposal information.
~	
SI	ECTION 7: Handling and storage
	1 Precautions for safe handling
	nsure good ventilation/extraction at the workplace.
	ore in cool, dry place in tightly closed receptacles.
	revent formation of aerosols.
	formation about fire - and explosion protection:
	eep ignition sources away - Do not smoke.
	rotect from heat.
Pi	rotect against electrostatic charges.
	2 Conditions for safe storage, including any incompatibilities forage:
	equirements to be met by storerooms and receptacles:
	ore in a cool location.
	lease refer to the manufacturer's certificate for specific storage and transport temperature conditions.
	ore only in the original receptacle unless other advice is given on the CoA.
	eep container in a well-ventilated place. Keep away from sources of ignition and heat.
	formation about storage in one common storage facility: Store away from foodstuffs.
	urther information about storage conditions:
	eep container tightly sealed.
	ore in cool, dry conditions in well sealed receptacles.
	rotect from heat and direct sunlight.
	3 Specific end use(s) No further relevant information available.
/	
a	ECTION 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: The product does not contain any relevant quantities of materials with critical values that have to be

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

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- · 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. 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 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.

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· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	-107 °C
Initial boiling point and boiling range	2: 99 ℃
· Flash point:	-12 °C
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	410 °C
· 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:	1.1 Vol %
Upper:	6 Vol %
· Vapour pressure at 20 °C:	15 hPa
· Density at 20 °C:	$0.69 \ g/cm^3$
· 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.

SECTION 10: Stability and reactivity

· 10.1 Reactivity Stable under normal conditions.

· 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.

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· 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.
- 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.
- · 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
- May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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

EC50/48 h 0.38 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.

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· 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

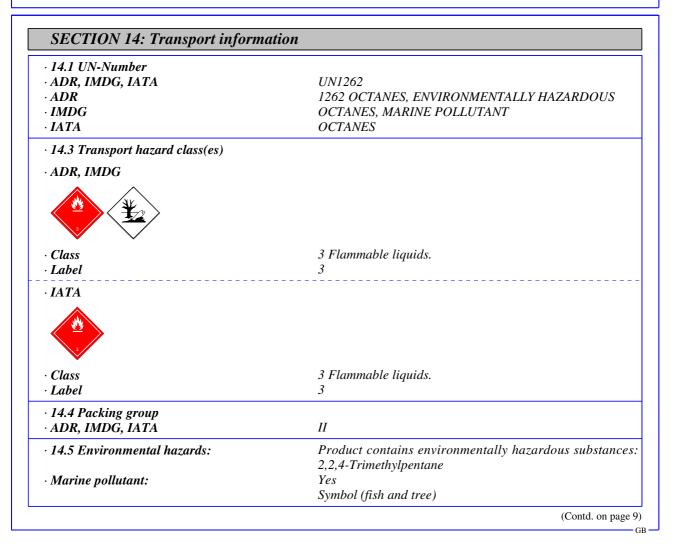
· Recommendation

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.





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· Special marking (ADR):	Symbol (fish and tree)	
· 14.6 Special precautions for user	Warning: Flammable liquids.	
· Danger code (Kemler):	33	
· EMS Number:	F- E , S - E	
· 14.7 Transport in bulk according to Annex II of	of	
Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	1L	
· Transport category	2	
• Tunnel restriction code	D/E	
· UN "Model Regulation":	UN1262, OCTANES, ENVIRONMENTALLY HAZARDOUS, 3, II	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

 \cdot 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 (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• 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)

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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,

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