

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 22-Mar-2024 Revision Number 2

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

1.1. Product identifier

Product Code(s) MM0103.00

Product Name Camphor, Racemic

Form Not applicable

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

EC No (EU Index No) 200-945-0

CAS No. 76-22-2

Chemical name 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one

Pure substance/mixture Substance

Formula C10H16O

Molecular weight 152.23

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

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com

Web: www.lgcstandards.com

For further information, please contact

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E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone 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

Emergency Telephone - §45 - (EC)1272/2008			
Europe	112		
Austria	No information available		
Bulgaria			
Croatia			
Cyprus			
Czech Republic			
Denmark			
France			
Hungary			
Ireland			
Italy			
Lithuania			
Luxembourg			
Netherlands			
Norway			
Portugal			
Romania			
Slovakia			
Slovenia			
Spain			
Sweden			
Switzerland			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)

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Specific target organ toxicity — single exposure	Category 2 - (H371)
Flammable solids	Category 2 - (H228)

2.2. Label elements

Contains 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one



Signal word Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H371 - May cause damage to organs

H228 - Flammable solid

Precautionary Statements - EU (§28, 1272/2008)

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	-	•

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SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%		,	Classification according		M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.			(long-term)
				1272/2008 [CLP]	limit (SCL)		
1,7,7-Trimethylbicyc	100	-	200-945-0	Flam. Sol. 2 (H228)			
lo[2.2.1]heptan-2-on				Acute Tox. 4 (H332)			
е				Skin Irrit. 2 (H315)			
76-22-2				Eye Dam. 1 (H318)			
				STOT SE 2 (H371)			
				, ,			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
No information available

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
1,7,7-Trimethylbicyclo[2.2 .1]heptan-2-one 76-22-2	No data available	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. If symptoms persist, call a doctor. Get medical attention immediately

if symptoms occur. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

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while rinsing. Do not rub affected area. Get immediate medical attention.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. If symptoms persist, call a doctor.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Get medical attention.

Self-protection of the first aider Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as

required. See section 8 for more information. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Avoid generation of dust. Do not breathe dust. Use personal protective equipment as

required. Ensure adequate ventilation. Evacuate personnel to safe areas. See section 8 for more information. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch

or walk through spilled material.

Other information Refer to protective measures listed in Sections 7 and 8. Ventilate the area.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Keep out of drains, sewers,

ditches and waterways.

Methods for cleaning upTake precautionary measures against static discharges. Pick up and transfer to properly

labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse.

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General hygiene considerations

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. 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 away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
1,7,7-Trimethylbicyclo[2.2	-	TWA: 2 ppm	TWA: 2 ppm	STEL: 18.0 mg/m ³	TWA: 2 ppm
.1]heptan-2-one		TWA: 13 mg/m ³	TWA: 12 mg/m ³	TWA: 12.0 mg/m ³	TWA: 13 mg/m ³
76-22-2			STEL: 3 ppm		STEL: 3 ppm
			STEL: 19 mg/m ³		STEL: 19 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
1,7,7-Trimethylbicyclo[2.2	-	-	TWA: 2 ppm	-	TWA: 0.3 ppm
.1]heptan-2-one			TWA: 12 mg/m ³		TWA: 1.9 mg/m ³
76-22-2					STEL: 0.9 ppm
					STEL: 5.7 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
1,7,7-Trimethylbicyclo[2.2		-	-	TWA: 12 mg/m ³	-
.1]heptan-2-one	TWA: 12 mg/m ³			STEL: 18 mg/m ³	
76-22-2					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania

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1,7,7-Trimethylbicyclo[2.2]	TV	VA: 2 ppm	-	TWA: 2 ppm	TWA:	3 mg/m ³	TWA: 3 mg/m ³
.1]heptan-2-one		A: 12 mg/m ³		TWA: 12.5 mg/m ³		3	3
76-22-2	ST	EL: 3 ppm		STEL: 3 ppm			
	STE	L: 18 mg/m ³		STEL: 18.7 mg/m ³			
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
1,7,7-Trimethylbicyclo[2.2		-	-	-		: 2 ppm	STEL: 18 mg/m ³
.1]heptan-2-one					TWA:	12 mg/m ³	TWA: 12 mg/m ³
76-22-2						_: 4 ppm	
					STEL:	18 mg/m ³	
Chemical name	F	Portugal	Romania	Slovakia	Slo	venia	Spain
1,7,7-Trimethylbicyclo[2.2		VA: 2 ppm	TWA: 6 ppm	TWA: 2 ppm		-	TWA: 2 ppm
.1]heptan-2-one	ST	EL: 3 ppm	TWA: 1 mg/m ³	TWA: 13 mg/m ³			TWA: 13 mg/m ³
76-22-2			STEL: 18 ppm	Ceiling: 26 mg/m ³			STEL: 3 ppm
			STEL: 3 mg/m ³				STEL: 19 mg/m ³
Chemical name		Sı	weden	Switzerland		Uni	ted Kingdom
1,7,7-Trimethylbicyclo[2.2.1]hep			-	TWA: 2 ppm			WA: 2 ppm
tan-2-one				TWA: 13 mg/m	3		'A: 13 mg/m³
76-22-2							TEL: 3 ppm
						STE	EL: 19 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing

safety goggles.

Hand protection The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.

Gloves					
Duration of contact	PPE - Glove material	Glove thickness	Break through time		
	Wear protective nitrile rubber gloves				

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Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes or clothing.

Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline powder

Colour white

Odour Characteristic.

Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing point 180 °C None known Initial boiling point and boiling range204 °C None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive

No data available

limits

Lower flammability or explosive No data available

limits

Flash point 66 °C None known **Autoignition temperature** 466 °C None known 204 °C **Decomposition temperature** None known рΗ No data available None known

pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Water solubility Slightly soluble 1.537 g/L None known

Solubility(ies) Acetone, Chloroform, Ethyl acetate,

slightly soluble

2.414 Partition coefficient None known

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Vapour pressureNo data availableNone knownRelative density0.992None known

Bulk density

No data available

Liquid Density

No data available

Relative vapour density 5.24 None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

Molecular weight 152.23 Molecular formula C10H16O

9.2.1. Information with regards to physical hazard classes Not applicable 204 °C 204 °C

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat. Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Harmful by inhalation. (based

on components). May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Redness. Burning. May cause blindness. May cause redness

and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,7,7-Trimethylbicyclo[2.2.1]hep		> 2000 mg/kg (Rat)	
tan-2-one			

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation. Classification based on data available for ingredients. Causes skin

irritation.

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Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye

damage.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). May

cause damage to organs.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,7,7-Trimethylbicyclo[2.2 .1]heptan-2-one	-	LC50: 33.25 mg/L (96h, fish	-	EC50: 4.23 mg/L (72h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	2.414

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
1,7,7-Trimethylbicyclo[2,2,1]heptan-2-one	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN2717 14.2 UN proper shipping name Camphor 14.3 Transport hazard class(es) 4.1 14.4 Packing group Ш

Description UN2717, Camphor, 4.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A803 **ERG Code** 3L

IMDG

14.1 UN number or ID number UN2717

14.2 UN proper shipping name Camphor (1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one)

14.3 Transport hazard class(es) 14.4 Packing group

Description UN2717, Camphor (1,7,7-Trimethylbicyclo[2,2,1]heptan-2-one), 4.1, III

NP 14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions None

F-A, S-I No information available EmS-No. No information available

14.7 Maritime transport in bulk

according to IMO instruments

RID

UN2717 14.1 UN number or ID number 14.2 UN proper shipping name Camphor 14.3 Transport hazard class(es) 4.1 14.4 Packing group Ш

UN2717, Camphor, 4.1, III Description

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None Classification code F1

<u>ADR</u>

14.1 UN number or ID number UN2717 14.2 UN proper shipping name Camphor 14.3 Transport hazard class(es) 4.1 14.4 Packing group Ш

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UN2717, Camphor, 4.1, III, (E) Description Not applicable

14.5 Environmental hazards 14.6 Special precautions for user

Special Provisions None

Classification code F1 **Tunnel restriction code** (E)

SECTION 15: Regulatory information

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

European Union

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursorsNot applicable

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA LGC, to the best of its ability, has confirmed that the chemical substances in this product are

listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as

amended Feb 2021."

DSL/NDSL

EINECS/ELINCS

Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H228 - Flammable solid

H315 - Causes skin irritation

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H371 - May cause damage to organs

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

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Flammable solids On basis of test data

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 22-Mar-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet

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