SAFETY DATA SHEET

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



Revision date 06-Dec-2022 Revision Number 1

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

1.1. Product identifier

Product Name OMER

Product Code(s) TP.2022.F.1__ISR

Chemical name Penconazole 100 EC

Pure substance/mixture Mixture

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

Recommended use Fungicide; For professional users only

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Tapazol Chemical Works Ltd. 1st HaSolela st. West. Ind. Zone Beit Shemesh, Israel 9905415

Tel:+972-2-992-6040 Fax: +972-2-9926050

For further information, please contact sds@tapazol.co.il

1.4. Emergency telephone number

Emergency Telephone +972 4 777 1900

National Institute for Information on Poisoning Rambam Health Care Campus, Haifa, Israel

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Regulation (EC) No 1272/2006	
Aspiration hazard	Category 1 - (H304)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 2 - (H361d)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Hydrocarbons, C10, aromatics, >1% naphthalene, Penconazole (ISO), 2-methylpropan-1-ol iso-butanol, Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts, Benzenesulfonic acid, C10-13-alkyl calcium salt



Signal word Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H411 - Toxic to aquatic life with long lasting effects

EUH066 - Repeated exposure may cause skin dryness or cracking

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

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

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P391 - Collect spillage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public.

This product requires child resistant fastenings if supplied to the general public.

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

Causes mild skin irritation.

Endocrine Disruptor Information

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Chemical name				
	Candidate List	Evaluated Substances		
Penconazole (ISO)	Group III Chemical	-		
Naphthalene	Group III Chemical	-		

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No.
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				1272/2008 [CLP]
Penconazole (ISO)	266-275-6	66246-88-6	9-13	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) M=1 Aquatic Chronic 1 (H410) M=1
Solvent Naphtha (Petroleum), Heavy Aromatic	265-198-5	64742-94-5	70-80	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Poly(oxy-1,2-ethanediyl), .alpha [tris(1-phenylethyl)phenyl]ome ga hydroxy	619-457-8	99734-09-5	4-8	Aquatic Chronic 3 (H412)
2-methylpropan-1-ol iso-butanol	201-148-0	78-83-1	2-3	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336) Flam. Liq. 3 (H226)
Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts	247-557-8	26264-06-2	1-3	Acute Tox. 4 (H302) Skin irrit. 2 (H315) Eye Dam.1 (H318) Chronic Aq. 4 (H413)
Benzenesulfonic acid, C10-13-alkyl calcium salt	-	932-231-6	1-3	Skin irrit. 2 (H315) Eye dam.1 (H318) Aquatic Chronic 3 (H412)
Naphthalene	202-049-5	91-20-3	<0.08	Acute Tox.4 (H302) Carc.2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
1,4-dioxane	204-661-8	123-91-1	<0.0006	Eye Irrit. 2 (H319) Carc. 1B (H350) STOT SE 3 (H335) Flam. Liq. 2 (H225) (EUH066) (EUH019)

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

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 Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

InhalationRemove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed

pulmonary edema may occur.

Eye contact Get immediate medical advice/attention. 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 while rinsing. Do not rub affected area.

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Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical

advice/attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid breathing vapors or

mists. See section 8 for more information.

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

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

of high vapor concentrations may cause symptoms like headache, dizziness, tiredness,

nausea and vomiting. Prolonged contact may cause redness and irritation.

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

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam.

Large Fire Water spray, fog or regular foam

Dike fire-control water for later disposal

Move containers from fire area if you can do it without risk

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

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special protective equipment 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

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapors or

mists.

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

6.2. Environmental precautions

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Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

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. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable

respiratory equipment.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children. Store away from other materials.

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	Netherlands	Bulgaria
2-methylpropan-1-ol	-	TWA: 50 ppm	TWA: 50 ppm	-	-
iso-butanol		TWA: 150 mg/m ³	TWA: 154 mg/m ³		
78-83-1		STEL 200 ppm			
		STEL 600 mg/m ³			
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 50 mg/m ³	STEL: 75.0 mg/m ³
91-20-3	TWA: 50 mg/m ³	TWA: 50 mg/m ³	TWA: 53 mg/m ³	STEL: 80 mg/m ³	TWA: 50.0 mg/m ³
	_	H*	STEL: 15 ppm	H*	
			STEL: 80 mg/m ³		
			*		
1,4-dioxane	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 mg/m ³	TWA: 20 ppm
123-91-1	TWA: 73 mg/m ³	TWA: 73 mg/m ³	TWA: 73 mg/m ³		TWA: 73 mg/m ³
	_	STEL 40 ppm	*		
		STEL 146 mg/m ³			
		H*			
Chemical name	Denmark	Germany	France	United Kingdom	Spain
2-methylpropan-1-ol	Ceiling: 50 ppm	TWA: 100 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm
iso-butanol	Ceiling: 150 mg/m ³	TWA: 310 mg/m ³	TWA: 150 mg/m ³	TWA: 154 mg/m ³	TWA: 154 mg/m ³

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78-83-1	H*			STEL: 75 ppm STEL: 231 mg/m ³	
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 0.4 ppm TWA: 2 mg/m³ H*	TWA: 10 ppm TWA: 50 mg/m ³	-	TWA: 10 ppm TWA: 53 mg/m³ STEL: 15 ppm STEL: 80 mg/m³ vía dérmica*
1,4-dioxane 123-91-1	TWA: 10 ppm TWA: 36 mg/m³ H*	TWA: 20 ppm TWA: 73 mg/m³ H*	TWA: 20 ppm TWA: 73 mg/m³ STEL: 40 ppm STEL: 140 mg/m³	TWA: 20 ppm TWA: 73 mg/m³ STEL: 60 ppm STEL: 219 mg/m³ Sk*	TWA: 20 ppm TWA: 73 mg/m³

Biological occupational exposure limits

Chemical name	Denmark	Finland	Fra	nce	Germany		Germany MAK
Naphthalene	-	-			35 μg/L - BAR	(end	-
91-20-3					of exposure or		
					of shift) urin		
					35 µg/L - BAR	(for	
					long-term	.	
					exposures: at		
					end of the shift		
4.4.1:					several shifts) u		400 / 0 /: :
1,4-dioxane	-	-		•		iinine	400 mg/g Creatinine
123-91-1					(urine -		(urine -
					z-Hydroxyetnox	(yace ₂	2-Hydroxyethoxyace tic acid end of shift)
					200 mg/g Creat		lic acid erid or stillt)
					- BAT (end		
					exposure or er		
					shift) urine		
Chemical name	Hungary	Irelan	d		Italy		Italy REL
Naphthalene	-	4 µmol/mol C			-	-	() - end of shift
91-20-3		(urine - 1-Hydro					
		post sh					
Chemical name	Latvia	Luxembo	ourg	R	omania		Slovakia
Naphthalene	-	-			-		.66 μg/L - urine
91-20-3							droxypyrene) - end
	<u> </u>						posure or work shift
Chemical name	Slovenia	Spair)		itzerland	Ų	Inited Kingdom
1,4-dioxane	400 mg/g Creatinine -	-			/g creatinine		-
123-91-1	urine			,	urine -		
	(2-Hydroxyethoxyacetic				y-ethoxyacetic		
	acid) - at the end of the			acid e	end of shift)		
	work shift					l	

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Color Clear yellow Odor Aromatic.

Property Values Remarks • Method

pН

pH (as aqueous solution) Melting point / freezing point Boiling point / boiling range

Flash point 68 - 69 °C **Evaporation rate** No data available. Flammability (solid, gas) No data available. Flammability Limit in Air

Upper flammability or explosive

No data available. limits

Lower flammability or explosive No data available. limits

Vapor pressure No data available. Vapor density No data available. Relative density 0.9 - 1.0

Water solubility Forms an emulsion Solubility(ies) No data available. **Partition coefficient** No data available. **Autoignition temperature** No data available.

Decomposition temperature

Kinematic viscosity < 20.5 mm²/s 40 °C

Dynamic viscosity No data available.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

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10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Oral LD50 >2000 mg/kg. Based on available data, the classification criteria are not met.

> 2000 mg/kg. Based on available data, the classification criteria are not met.

> 2000 mg/kg. Based on available data, the classification criteria are not met.

Not classified. Based on calculation method, the classification criteria are not met.

Skin corrosion/irritationNon-irritating to the skin. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation H319 - Causes serious eye irritation. Classification based on test data.

Respiratory or skin sensitization H317 - May cause an allergic skin reaction. Classification based on test data.

Germ cell mutagenicity

Chemical name	European Union
Penconazole (ISO)	Not classified
Naphthalene	Not classified

Carcinogenicity

Chemical name	European Union
Penconazole (ISO)	Not classified
Naphthalene	Carc. 2 (H351)
1,4-dioxane	Carc. 2

Reproductive toxicity

Chemical name	European Union
Penconazole (ISO)	Repr. 2 (H361d)
Naphthalene	Not classified

STOT - single exposure Cat 3 (H336) - May cause drowsiness or dizziness. Classification based on calculation

method.

STOT - repeated exposureNot classified. (Based on calculation method classification criteria are not met).

Aspiration hazard H304 - May be fatal if swallowed and enters airways. Classification based on test data.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Non-toxic to honeybees.

H411 - Toxic to aquatic life with long lasting effects.

Classification based on calculation method.

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Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Penconazole (ISO)	Acute toxicity: EC50 =	Acute toxicity: LC50 =	-	Acute toxicity: EC50 =
	0.19 mg/l;	1.13 mg/l;		6.75 mg/l;
	Chronic toxicity: NOEC =	Chronic toxicity: NOEC =		Chronic toxicity: NOEC =
	NA	0.36 mg/l		0.06 mg/l

12.2. Persistence and degradability

Persistence and degradability From moderately to very persistent [Penconazole].

12.3. Bioaccumulative potential

Bioaccumulation Low potential for bioaccumulation. [Penconazole].

Bioconcentration factor (BCF) 320 L/Kg [Penconazole]

Component Information

Chemical name	Partition coefficient
Penconazole (ISO)	Log P = 3.72 (pH 7, 20 °C)
1,4-dioxane	-0.42

12.4. Mobility in soil

Mobility in soil Slightly mobile in soil [Penconazole].

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessmentThe components in formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Penconazole (ISO)	The substance is not PBT / vPvB
Solvent Naphtha (Petroleum), Heavy Aromatic	The substance is not PBT / vPvB
Poly(oxy-1,2-ethanediyl), .alpha [tris(1-phenylethyl)phenyl]omega	The substance is not PBT / vPvB
2-methylpropan-1-ol iso-butanol	The substance is not PBT / vPvB
Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts	The substance is not PBT / vPvB
Benzenesulfonic acid, C10-13-alkyl calcium salt	The substance is not PBT / vPvB
Naphthalene	The substance is not PBT / vPvB
1.4-dioxane	The substance is not PBT / vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
Penconazole (ISO)	Group III Chemical	-
Naphthalene	Group III Chemical	-

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

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IMDG

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Penconazole], [Hydrocarbons, C10,

aromatics, <1% naphthalene]

14.3 Transport hazard class(es)914.4 Packing groupIII14.5 Marine pollutant
Environmental hazardsYes

14.6 Special precautions for user

Special Provisions None

14.7. Transport in bulk according to Annex II of MARPOL and the IBC

Code

RID

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Penconazole], [Hydrocarbons, C10,

aromatics, <1% naphthalene]

14.3 Transport hazard class(es)914.4 Packing groupIII14.5 Environmental hazardsYes

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Penconazole], [Hydrocarbons, C10,

aromatics, <1% naphthalene]

14.3 Transport hazard class(es)914.4 Packing groupIII14.5 Environmental hazardsYes

14.6 Special precautions for user

Special Provisions None

IATA

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Penconazole], [Hydrocarbons, C10,

aromatics, <1% naphthalene]

14.3 Transport hazard class(es)914.4 Packing groupIII14.5 Environmental hazardsYes

14.6 Special precautions for user

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Solvent Naphtha (Petroleum), Heavy Aromatic	RG 84	-
64742-94-5		
2-methylpropan-1-ol	RG 84	-
iso-butanol		
78-83-1		
1,4-dioxane	RG 84	-
123-91-1		

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Germany

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

European Union

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

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (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)

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **FNCS** Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status **KECL** Contact supplier for inventory compliance status **PICCS AICS** 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

15.2. Chemical safety assessment

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

EUH019 - May form explosive peroxides

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H350 - May cause cancer

H361d - Suspected of damaging the unborn child

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H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

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

Ceiling Maximum limit value * Skin designation

Classification procedure

H304 - Classification based on test data

H317 - Classification based on test data

H319 - Classification based on test data

H332 - Classification based on Plant Protection authority opinion in Israel

H336 - Classification based on calculation method

H361d - Classification based on calculation method

H411 - Classification based on calculation method

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

Australia 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)

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

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

World Health Organization

Revision date 06-Dec-2022

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet