# 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 26-Apr-2022

Revision Number 1

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

1.1. Product identifier		
Product Name	OR	
Product Code(s)	TP.1003.H.1ISR	
Chemical name	Carfentrazone-ethyl 400 EC	
Pure substance/mixture	Mixture	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Recommended use	Herbicide; 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

Aspiration hazard	Category 1 - (H304)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336); - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

## 2.2. Label elements

Contains Solvent Naphtha (Petroleum), Heavy Aromatic, Carfentrazone-ethyl (ISO)



Signal word Danger

## Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

P302 + P352 - IF ON SKIN: Wash with plenty of water/...

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

P405 - Store locked up

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

## Additional information

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

## Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
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. 1272/2008 [CLP]
Carfentrazone-ethyl (ISO)	-	128639-02-1	37-42	Aquatic Acute 1 (H400) M=1 Aquatic Chronic 1 (H410) M=100

Solvent Naphtha (Petroleum), Heavy Aromatic	265-198-5	64742-94-5	41-47	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Ethoxylated oleyl amine, dodecylbenzenesulphonic salt	613-939-1	66467-20-7	3-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Benzenesulfonic acid, C10-13-alkyl calcium salt	-	932-231-6	3-6	Skin irrit. 2 (H315) Eye dam.1 (H318) Aquatic Chronic 3 (H412)
2-methylpropan-1-ol iso-butanol	201-148-0	78-83-1	2-4	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336) Flam. Liq. 3 (H226)
Poly(oxy-1,2-ethanediyl), .alpha [tris(1-phenylethyl)phenyl]ome ga hydroxy	619-457-8	99734-09-5	0.5-2	Aquatic Chronic 3 (H412)
Naphthalene	202-049-5	91-20-3	<0.4	Acute Tox.4 (H302) Carc.2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

# 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.
Inhalation	Remove 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.
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.	
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			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Small Fire Large Fire	Dry chemical, CO2, water spray or regular foam. 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	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
fire-fighters	gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

6.1. Personal	precautions,	protective e	equipment a	nd emergency	/ procedures

Other informationRefer to protective measures listed in Sections 7 and 8.For emergency respondersUse personal protection recommended in Section 8.6.2. Environmental precautionsPrevent further leakage or spillage if safe to do so.	Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas.
6.2. Environmental precautions	Other information	Refer to protective measures listed in Sections 7 and 8.
	For emergency responders	Use personal protection recommended in Section 8.
<b>Environmental precautions</b> Prevent further leakage or spillage if safe to do so.	6.2. Environmental precautions	
	Environmental precautions	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for containment and cleaning up	6.3. Methods and material for conta	inment and cleaning up
Methods for containmentPrevent further leakage or spillage if safe to do so.	Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.	Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
<b>Prevention of secondary hazards</b> Clean contaminated objects and areas thoroughly observing environmental regulations.	Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	6.4. Reference to other sections	
<b>Reference to other sections</b> See section 8 for more information. See section 13 for more information.	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 <sup>3</sup>	TWA: 154 mg/m <sup>3</sup>		
78-83-1		STEL 200 ppm			
		STEL 600 mg/m <sup>3</sup>			
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>	STEL: 75.0 mg/m <sup>3</sup>
91-20-3	TWA: 50 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>	TWA: 53 mg/m <sup>3</sup>	STEL: 80 mg/m <sup>3</sup>	TWA: 50.0 mg/m <sup>3</sup>
		H*	STEL: 15 ppm	H*	
			STEL: 80 mg/m <sup>3</sup>		
			*		
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 <sup>3</sup>	TWA: 310 mg/m <sup>3</sup>	TWA: 150 mg/m <sup>3</sup>	TWA: 154 mg/m <sup>3</sup>	TWA: 154 mg/m <sup>3</sup>
78-83-1	H*			STEL: 75 ppm	
				STEL: 231 mg/m <sup>3</sup>	
Naphthalene	TWA: 10 ppm	TWA: 0.4 ppm	TWA: 10 ppm	-	TWA: 10 ppm
91-20-3	TWA: 50 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>		TWA: 53 mg/m <sup>3</sup>
		H*			STEL: 15 ppm
					STEL: 80 mg/m <sup>3</sup>
					vía dérmica*

# **Biological occupational exposure limits**

Chemical name	Denmark	Finland	France	Germany	Germany MAK
Naphthalene	-	-	-	35 µg/L - BAR (end	-
91-20-3				of exposure or end	
				of shift) urine	
				35 µg/L - BAR (for	
				long-term	
				exposures: at the	

			end of the shift several shifts)	
Chemical name	Hungary	Ireland	Italy	Italy REL
Naphthalene 91-20-3	-	4 µmol/mol Creatinine (urine - 1-Hydroxypyrene post shift)	-	- () - end of shift
Chemical name	Latvia	Luxembourg	Romania	Slovakia
Carfentrazone-ethyl (ISO) 128639-02-1	-	-	5 mg/g Creatinine - urine (Fluorine) - end of shift	-
Naphthalene 91-20-3	-	-	-	5.66 µg/L - urine (1-Hydroxypyrene) - end of exposure or work shift

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

3.1. information on basic physical a	ina chemical properties	
Physical state	Liquid	
Color	Clear brown	
Odor	Aromatic. Solvent.	
Property_	<u>Values</u>	Remarks • Method
рН	5 - 7	1% solution, 20 °C
pH (as aqueous solution)		
Melting point / freezing point		
Boiling point / boiling range		
Flash point	No data available.	
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	1.0 - 1.1	
Water solubility	Forms an emulsion	
Solubility(ies)	No data available.	
Partition coefficient	No data available.	
Autoignition temperature	No data available.	

Decomposition temperature Kinematic viscosity Dynamic viscosity

No data available. No data available.

9.2. Other information

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Stability

10.2. Chemical stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

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 Dermal LD50 Inhalation LC50	<ul> <li>5000 mg/kg. Based on available data, the classification criteria are not met.</li> <li>&gt; 2000 mg/kg. Based on available data, the classification criteria are not met.</li> <li>&gt; 5.205 mg/l air 4 h. Based on available data, the classification criteria are not met.</li> </ul>
Skin corrosion/irritation	Non-irritating to the skin. Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Eye Irrit. 2 - H319. Classification based on test data.
Respiratory or skin sensitization	Not a skin sensitizer. Based on available data, the classification criteria are not met.

## Germ cell mutagenicity

Chemical name	European Union
Carfentrazone-ethyl (ISO)	Not classified
Naphthalene	Not classified

Carcinogenicity

Chemical name	European Union
Carfentrazone-ethyl (ISO)	Not classified

Naphthalene	Carc. 2 (H351)

## Reproductive toxicity

Chemical name		European Union
Carfentrazone-eth	ıyl (ISO)	Not classified
Naphthaler	ne	Not classified
STOT - single exposure	Cat 3 (H336) - May cause method.	drowsiness or dizziness. Classification based on calculation
STOT - repeated exposure	Not classified. (Based on available data, the classification criteria are not met).	
Aspiration hazard	H304 - May be fatal if swa method.	llowed and enters airways. Classification based on calculation

# **SECTION 12: Ecological information**

# 12.1. Toxicity

# Ecotoxicity

Very toxic to aquatic life:. H400 - Classification based on calculation method. Very toxic to aquatic life with long lasting effects:. H410 - Classification based on calculation method.

Non-toxic to honeybees.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Carfentrazone-ethyl	Acute toxicity: LC50 =	Acute toxicity: LC50 = 1.6	-	Acute toxicity: LC50 =
(ISO)	0.0057 mg/l;	mg/l;		1.01 mg/l;
	Chronic toxicity: NOEC =	Chronic toxicity: NOEC =		Chronic toxicity: NOEC =
	0.012 mg/l	0.11 mg/l		0.22 mg/l

# 12.2. Persistence and degradability

Persistence and degradability Non-persistent [Carfentrazone-ethyl].

12.3. Bioaccumulative potential

Bioaccumulation	No assessment of the accumulative effects is available [Carfentrazone-ethyl].

Bioconcentration factor (BCF) 176 L/kg [Carfentrazone-ethyl]

12.4. Mobility in soil

Mobility in soil Slightly to moderately mobile [Carfentrazone-ethyl].

# 12.5. Results of PBT and vPvB assessment

# PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Carfentrazone-ethyl (ISO)	The substance is not PBT / vPvB
Solvent Naphtha (Petroleum), Heavy Aromatic	The substance is not PBT / vPvB
Ethoxylated oleyl amine, dodecylbenzenesulphonic salt	The substance is not PBT / vPvB
Benzenesulfonic acid, C10-13-alkyl calcium salt	The substance is not PBT / vPvB
2-methylpropan-1-ol	The substance is not PBT / vPvB

iso-butanol	
Poly(oxy-1,2-ethanediyl), .alpha [tris(1-phenylethyl)phenyl]omega	The substance is not PBT / vPvB
hydroxy	
Naphthalene	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
Naphthalene	Group III Chemical	-

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# **SECTION 14: Transport information**

IMDG 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant Environmental hazards 14.6 Special precautions for user Special Provisions 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	3082 Environmentally hazardous substance, liquid, n.o.s. [Carfentrazone-ethyl] 9 III Yes Yes None
RID14.1UN number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user Special Provisions	3082 Environmentally hazardous substance, liquid, n.o.s. [Carfentrazone-ethyl] 9 III Yes None
<u>ADR</u> 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions	3082 Environmentally hazardous substance, liquid, n.o.s. [Carfentrazone-ethyl] 9 III Yes None
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	3082 Environmentally hazardous substance, liquid, n.o.s. [Carfentrazone-ethyl] 9 III Yes

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		

#### Germany

Water hazard class (WGK) Obviously hazardous to water (WGK 2)

#### **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)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

## 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
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
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

 $\ensuremath{\textbf{KECL}}\xspace$  - 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

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

#### Full text of H-Statements referred to under section 3

- 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
- H351 Suspected of causing cancer
- 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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section	8: Exposure controls/personal protect	tion	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **Classification procedure**

- H304 Classification based on calculation method
- H315 Classification based on Plant Protection authority opinion in Israel
- H319 Classification based on test data
- H332 Classification based on Plant Protection authority opinion in Israel
- H335 Classification based on Plant Protection authority opinion in Israel
- H336 Classification based on calculation method
- H400 Classification based on calculation method
- H410 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
- 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 26-Apr-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**