



**Product #: LIQ2015
LIQ2070-LIQ2074**

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

AEGIS® Crack Fill

Issuing Date 22-Mar-2023

Revision date 22-Mar-2023

Revision Number 4

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

1.1. Product Identifier

Product Name **AEGIS® Crack Fill**
Other means of identification **LIQ2015 / LIQ2070-LIQ2074**

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

Recommended use Adhesives.
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer
AEGIS Tools International
908 West Main St.
Laurel, MT 59044
Tel: +(1)-800-548-7341
Fax: +(1)-406-628-8354

E-mail address rachaelm@wpg.com

1.4. Emergency telephone number (24 Hour Emergency)

Phone Number Chemtrec @ 001-703-741-5970

Austria +(43)-13649237	Belgium +(32)-28083237	Bulgaria +(359)-32570104
Croatia +(385)-17776920	Czech Republic +(420)-228880039	Denmark +(45)-69918573
Estonia +(372)-6681294	Finland +(358)-942419014	France +(33)-975181407
Germany 0800-181-7059	Greece +(30)-2111768478	Hungary +(36)-18088425
Ireland +(353)-19014670	Italy 800-789-767	Latvia +(371)-66165504
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Romania (+40)-37-6300026	Slovakia +(423)-233057972	Slovenia +(386)-18888016
Spain 900-868538	Sweden +(46)-852503403	United Kingdom +(44)-870-8200418
Israel +(972)-37630639	Russia 8-800-100-6346	Saudi Arabia +(966)-8111095861
Switzerland +(41)-435082011	Turkey +(90)-212-7055340	Ukraine +(380)-947101374
India 000-800-100-7141	Indonesia 001-803-017-9114	Malaysia +(60)-327884561
Singapore +(65)-31581349	Taiwan 00801-14-8954	Thailand 001-800-13-203-9987

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1 - (H317)
Specific target organ toxicity — single exposure	Category 3 - (H335)

2.2. Label elements



Signal word

Danger

Hazard Statements

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

Contains Acrylic Acid, 3-Methacryloxypropyltrimethoxysilane, Isobornyl Acrylate
EUH208 - Contains 2-Hydroxyethyl methacrylate. May produce an allergic reaction.

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

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.

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

2.3. Other Hazards

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilisation Test.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical name	CAS No	EC No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP] Verordening (EG) nr. 1272/2008 [CLP]
Acrylate Ester	Proprietary	Listed	40-69	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Methacrylate Ester Monomer	Proprietary	Listed	10-24	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)
Acrylic Acid	79-10-7	201-177-9	3-<5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)
Silane Coupling Agent	Proprietary	Listed	1-<3	Skin Sens. 1 (H317)

Chemical name	(Specific Concentration Limit; SCL)	M-Factor	M-factor (long-term)
Acrylic Acid	STOT SE 3 :: C>=1%	-	-

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

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.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.

Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

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.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Burning sensation. Itching. Rashes. Hives.

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

Note to doctors:

May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical or CO2.

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**

Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products

Carbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NO_x).

5.3. Advice for firefighters**Special protective equipment and precautions for firefighters**

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. Keep people away from and upwind of spill/leak.

Other information

Refer to protective measures listed in Sections 7 and 8.

6.2. 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 up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take 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

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. Ensure adequate ventilation. Protect from light.

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 container tightly closed in a dry and well-ventilated place. Protect from light.

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	Austria	Belgium	Bulgaria	Croatia	Cyprus
Acrylic Acid	TWA: 10 ppm TWA: 29 mg/m ³ STEL 20 ppm STEL 59 mg/m ³	TWA: 2 ppm TWA: 6.0 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ *	STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm
Chemical name	Czech Republic	Denmark	Estonia	European Union	Finland
Acrylic Acid	TWA: 30 mg/m ³ Ceiling: 60 mg/m ³	TWA: 2 ppm TWA: 5.9 mg/m ³ H* STEL: 20 ppm 1 minute STEL: 59 mg/m ³ 1 minute	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ STEL: 15 ppm STEL: 45 mg/m ³	STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm	TWA: 2 ppm TWA: 6 mg/m ³ Ceiling: 15 ppm Ceiling: 45 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Acrylate Ester	-	-	skin sensitizer	-	-
Methacrylate Ester Monomer	-	-	skin sensitizer	-	-
Acrylic Acid	TWA: 2 ppm TWA: 6 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³	TWA: 10 ppm TWA: 30 mg/m ³	TWA: 10 ppm TWA: 30 mg/m ³ Peak: 10 ppm Peak: 30 mg/m ³	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	TWA: 29 mg/m ³ STEL: 59 mg/m ³
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Methacrylate Ester Monomer	-	-	-	-	Sensitizer TWA: 20 mg/m ³
Acrylic Acid	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	TWA: 29 mg/m ³ TWA: 10 ppm STEL: 59 mg/m ³ STEL: 20 ppm STEL: 20 ppm pelle*	TWA: 2 ppm TWA: 6 mg/m ³ *	TWA: 5 mg/m ³ TWA: 1.7 ppm STEL: 59 mg/m ³ STEL: 20 ppm	TWA: 10 ppm TWA: 29 mg/m ³ Ceiling: 59 mg/m ³ Ceiling: 20 ppm

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Methacrylate Ester Monomer	-	-	-	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 4 ppm STEL: 16.5 mg/m ³	-
Acrylic Acid	STEL: 59 mg/m ³ STEL: 20 ppm TWA: 29 mg/m ³ TWA: 10 ppm	STEL: 20 ppm STEL: 59 mg/m ³ TWA: 10 ppm TWA: 29 mg/m ³	TWA: 29 mg/m ³ STEL: 59 mg/m ³	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	STEL: 29.5 mg/m ³ TWA: 10 mg/m ³ *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Acrylic Acid	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 59 mg/m ³ STEL: 20 ppm p*	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	TWA: 10 ppm TWA: 29 mg/m ³ Ceiling: 59 mg/m ³	TWA: 29 mg/m ³ TWA: 10 ppm STEL: 20 ppm STEL: 59 mg/m ³ *	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³ via dérmica*
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Hazard Class
Methacrylate Ester Monomer	-	-	-	MAC: 20 mg/m ³	4
Acrylic Acid	NGV: 10 ppm NGV: 29 mg/m ³ Bindande KGV: 20 ppm Bindande KGV: 59 59 mg/m ³	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	TWA: 10 ppm TWA: 29 mg/m ³ STEL: 20 ppm STEL: 59 mg/m ³	TWA: 5 mg/m ³ MAC: 15 mg/m ³	3

Biological occupational exposure limits

Chemical name	Hungary	Ireland	Italy	Italy REL	Latvia
Acrylic Acid	-	-	-	TWA: 2 ppm TWA: 6 mg/m ³ *	-

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

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.

Personal protective equipment**Hand protection**

Wear suitable gloves. Nitrile rubber, Butyl rubber. Gloves must conform to standard EN 374.

Duration of contact	PPE - Glove material	Glove thickness [mm]	Breakthrough time [minutes]
Short term	Wear protective nitrile rubber gloves	> 0.1	10 - 20
Long term (repeated)	Wear protective nitrile rubber gloves	0.5	> 480

Eye/face protection

Eye protection must conform to standard EN 166. Tight-sealing safety goggles.

Skin and body protection

Wear suitable protective clothing. Long-sleeved 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. Recommended filter type: brown. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Appearance:	Transparent
Colour:	Colourless
Odour:	Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks · Method</u>
pH:	No data available	No information available
pH (as aqueous solution):	No data available	Not applicable
Melting point / freezing point:	No data available	No information available
Boiling point / boiling range:	No data available	No information available
Flash point:	101 °C / 214 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate:	No data available	No information available
Flammability (solid, gas):	No data available	Not applicable

<u>Property (continued)</u>	<u>Values (continued)</u>	<u>Remarks · Method (continued)</u>
Flammability Limit in Air		
Upper flammability or explosive limits:	No data available	No information available
Lower flammability or explosive limits:	No data available	No information available
Vapour pressure:	No data available	No information available
Relative vapour density:	No data available	No information available
Relative density:	No data available	No information available
Water solubility:	Partially soluble	No information available
Solubility(ies):	No data available	No information available
Partition coefficient:	No data available	No information available
Autoignition temperature:	438 °C / 820.4 °F	No information available
Decomposition temperature:	No data available	No information available
Kinematic viscosity:	No data available	No information available
Dynamic viscosity:	34 cP	
Explosive properties:	No information available	
Oxidising properties:	No information available	

9.2. Other information

Softening point:	No information available
Molecular weight:	No information available
VOC Content (%):	No information available
Liquid Density:	No information available
Bulk density:	No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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.

Hazardous polymerisation

None under normal processing.

10.4. Conditions to avoid

Protect from light. Heat, flames and sparks.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information**Inhalation:**

Specific test data for the substance or mixture is not available. 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. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion:

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity**The following values are calculated based on chapter 3.1 of the GHS document:**

ATEmix (oral):	4,020.90 mg/kg
ATEmix (dermal):	4,973.60 mg/kg
ATEmix (inhalation-dust/mist):	56.10 mg/l

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

Component Information:

Chemical name	Oraal LD50	Dermaal LD50	Inademing LC50
Acrylate Ester	= 4890 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Methacrylate Ester Monomer	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Acrylic Acid	= 193 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 11.1 mg/L (Rat) 1 h = 3.6 mg/L (Rat) 4 h
Silane Coupling Agent	= 23.5 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2.28 mg/L (Rat) 6 h

Symptoms related to the physical, chemical and toxicological characteristics

Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitisation

May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Not classified. Based on available data, the classification criteria are not met.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard

Not classified. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity**Ecotoxicity****Product Information**

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilisation Test.

Chemical name	Fish	Crustacea	Algae/aquatic plants
Acrylate Ester	LC50: =0.704mg/L (96h, Danio rerio)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)	ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)
Methacrylate Ester Monomer	LC50: 213 - 242mg/L (96h, Pimephales promelas) LC50: =227mg/L (96h, Pimephales promelas)	EC50 > 380 mg/l 48 h (Daphnia magna)	-
Acrylic Acid	LC50: =222mg/L (96h, Brachydanio rerio) NOEC: >= 10.1mg/L (45d, Oryzias latipes, OECD 210)	EC50: =95mg/L (48h, Daphnia magna) NOEC: =3.8mg/L (21d, Daphnia magna)	EC50: =0.04mg/L (72h, Desmodesmus subspicatus) EC50: =0.17mg/L (96h, Pseudokirchneriella subcapitata)
Silane Coupling Agent	LC50: >100mg/L (96h Danio rerio)	EEC50 > 876,00 mg/l 48 h (Daphnia magna)	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulation

There is no data for this product.

Component Information:

Chemical name	Partition coefficient
Acrylate Ester	4.52
Methacrylate Ester Monomer	0.47
Acrylic Acid	0.46
Silane Coupling Agent	2.1

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Acrylate Ester	The substance is not PBT / vPvB
Methacrylate Ester Monomer	The substance is not PBT / vPvB
Acrylic Acid	The substance is not PBT / vPvB PBT assessment does not apply
Silane Coupling Agent	The substance is not PBT / vPvB

12.6. Other adverse effects**Endocrine Disruptor Information**

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

Other adverse effects

No information available.

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.

Waste codes / waste designations according to EWC / AVV

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IMDG

14.1 UN number or ID number:	Not regulated
14.2 UN proper shipping name:	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group:	Not regulated
14.5 Marine pollutant:	Not applicable
14.6 Special precautions for user:	None
Special Provisions:	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	No information available

IATA

14.1 UN number or ID number:	Not regulated
14.2 UN proper shipping name:	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group:	Not regulated
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	None
Special Provisions:	None

ADR

14.1 UN number or ID number:	Not regulated
14.2 UN proper shipping name:	Not regulated
14.3 Transport hazard class(es):	Not regulated
14.4 Packing group:	Not regulated
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	None
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
Methacrylate Ester Monomer	RG 65	-

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.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Methacrylate Ester Monomer	75.	-
Acrylic Acid	75.	-

Persistent Organic Pollutants:

Not applicable.

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

Non-controlled.

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

Not applicable.

International Inventories

AIIC	Not Listed
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Simplified Notification
KECL	Complies
PICCS	Not Listed
NZIoC	Not Listed
TCSI	Not Listed
TSCA	Complies

Legend:

AIICS	- Australian Industrial Chemicals Introduction Scheme
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
NZIoC	- New Zealand Inventory of Chemicals
TCSI	- Taiwan Chemical Substance Inventory
TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet**

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average)	STEL (Short Term Exposure Limit)
Ceiling: Maximum limit value	*: Skin designation

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.
 H332 - Harmful if inhaled.
 H335 - May cause respiratory irritation.
 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.

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	On basis of test data
Chronic aquatic toxicity	On basis of test data
Aspiration hazard	Calculation method
Ozone	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
 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-2023

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

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End of Safety Data Sheet