SAFETY DATA SHEET

Grenade Igniter Case Sealant 47422

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:	Grenade Igniter Case Sealant 47422
Product no.:	MS-47422
Unique formula identifier (UFI):	N000-A0PG-V00S-2W45

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

Relevant identified uses of the substance or mixture:	Sealant Restricted to professional users.
Uses advised against :	None known.

1.3. Details of the supplier of the safety data sheet

Company and address:	**Hernon Manufacturing Inc** 121 Tech Drive FL 32771 Sanford USA T: +1-407-322-4000 www.hernon.com
Contact person:	Hernon SDS Coordinator
E-mail:	customerservice@hernon.com
Revision:	24/06/2025
SDS Version:	2.0
Date of previous version:	30/10/2024 (1.0)

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webpoisoncontrol (triage.webpoisoncontrol.org) to get specific guidance for your case.
VelocityEHS:
+1-800-255-3924 (USA)
+1-813-248-0585 (International)
1-300-954-583 (Australia)
0-800-591-6042 (Brazil)
400-120-0751 (China)
000-800-100-4086 (India)
800-099-0731 (Mexico)
Contract #: (MIS0002665)

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Dam. 1; H318, Causes serious eye damage.
STOT SE 3; H335, May cause respiratory irritation.
Carc. 1B; H350, May cause cancer.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
Causes severe skin burns and eye damage. (H314)
May cause an allergic skin reaction. (H317)
May cause respiratory irritation. (H335)
May cause cancer. (H350)
Toxic to aquatic life with long lasting effects. (H411)

Precautionary statement(s):

General: -

Prevention:
Obtain special instructions before use. (P201)
Wear eye protection/protective clothing. (P280)

Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
IF exposed or concerned: Get medical advice/attention. (P308+P313)

Storage:
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

▼*Disposal:*
Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:
Triethylene Glycol Dimethacrylte
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate
acrylic acid
Hydroxycyclohexyl phenyl ketone
Cumene hydroperoxide
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Cumene
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Additional labelling:
Restricted to professional users.

UFI: N000-A0PG-V00S-2W45

2.3. Other hazards

Additional warnings:
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered

to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Triethylene Glycol Dimethacrylte	CAS No.: 109-16-0 EC No.: 203-652-6 UK-REACH: Index No.:	60-100%	Skin Sens. 1B, H317	
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	CAS No.: 15625-89-5 EC No.: 239-701-3 UK-REACH: Index No.: 607-111-00-9	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
acrylic acid	CAS No.: 79-10-7 EC No.: 201-177-9 UK-REACH: Index No.: 607-061-00-8	3-7%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 (SCL: 1.00 %) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Hydroxycyclohexyl phenyl ketone	CAS No.: 947-19-3 EC No.: 213-426-9 UK-REACH: Index No.:	1-5%	Aquatic Chronic 3, H412	
Cumene hydroperoxide	CAS No.: 80-15-9 EC No.: 201-254-7 UK-REACH: Index No.: 617-002-00-8	1-5%	Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 (SCL: 10.00 %) Skin Irrit. 2, H315 (SCL: 3.00 %) Eye Dam. 1, H318 Acute Tox. 3, H331 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 1, H410 (M=1)	
phenyl bis(2,4,6-	CAS No.: 162881-26-7	0.5-2%	Skin Sens. 1A, H317	

trimethylbenzoyl)-phosphine oxide	EC No.: 423-340-5 UK-REACH: Index No.: 015-189-00-5		Aquatic Chronic 4, H413	
Cumene	CAS No.: 98-82-8 EC No.: 202-704-5 UK-REACH: Index No.: 601-024-00-X	0.1-1%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Carc. 1B, H350 Aquatic Chronic 3, H412	[1]
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	CAS No.: 75980-60-8 EC No.: 278-355-8 UK-REACH: Index No.: 015-203-00-X	0.1-1%	Skin Sens. 1B, H317 Repr. 1B, H360Fd Aquatic Chronic 2, H411	[5]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.
[5] Substance is included in the Candidate List of substances of very high concern (SVHC).

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation: Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact: Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact: If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.
Burns:	Not applicable.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)

5.3. ▼Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.
Hazchem Code: ●3Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapours from spilled material.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.
Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Always store in containers of the same material as the original container.
Storage conditions:	Keep at temperatures between 7 and 29 °C. Protect from moisture. Protect from sunlight. Dry, cool and well ventilated Store away from heat, sparks, flames, or other sources of ignition.
Incompatible materials:	Strong oxidizing agents Peroxides Strong bases Metal Free radical generators

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

acrylic acid
Long term exposure limit (8 hours) (ppm): 10
Long term exposure limit (8 hours) (mg/m^3): 29
Short term exposure limit (15 minutes) (ppm): 20 (1 min.)
Short term exposure limit (15 minutes) (mg/m^3): 59 (1 min.)

Cumene
Long term exposure limit (8 hours) (ppm): 25
Long term exposure limit (8 hours) (mg/m^3): 125
Short term exposure limit (15 minutes) (ppm): 50
Short term exposure limit (15 minutes) (mg/m^3): 250
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - Workers	Dermal	404 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	17.1 mg/m^3

acrylic acid

Duration:	**Route of exposure:**	**DNEL:**
Long term – Local effects - General population	Inhalation	3.6 mg/m^3
Long term – Local effects - Workers	Inhalation	30 mg/m^3
Long term – Systemic effects - General population	Inhalation	3.6 mg/m^3
Long term – Systemic effects - Workers	Inhalation	30 mg/m^3
Short term – Local effects - General population	Inhalation	3.6 mg/m^3
Short term – Local effects - Workers	Inhalation	30 mg/m^3
Short term – Systemic effects - General population	Inhalation	3.6 mg/m^3
Short term – Systemic effects - Workers	Inhalation	30 mg/m^3
Long term – Systemic effects - General population	Oral	400 µg/kg bw/day
Short term – Systemic effects - General population	Oral	1.2 mg/kg bw/day

Cumene

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	1.2 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	15.4 mg/kg bw/day

Long term – Systemic effects - General population	Inhalation	16.6 mg/m³
Long term – Systemic effects - Workers	Inhalation	100 mg/m³
Short term – Local effects - Workers	Inhalation	250 mg/m³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

Cumene hydroperoxide

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - Workers	Inhalation	6 mg/m³

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	83.3 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	233 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	145 µg/m³
Long term – Systemic effects - Workers	Inhalation	822 µg/m³
Long term – Systemic effects - General population	Oral	83.3 µg/kg bw/day

Hydroxycyclohexyl phenyl ketone

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	694 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.94 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.21 mg/m³
Long term – Systemic effects - Workers	Inhalation	6.8 mg/m³
Long term – Systemic effects - General population	Oral	694 µg/kg bw/day

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	1.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	3 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	1.67 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	3.33 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.93 mg/m³
Long term – Systemic effects - Workers	Inhalation	7.84 mg/m³
Short term – Systemic effects - General population	Inhalation	1.93 mg/m³
Short term – Systemic effects - Workers	Inhalation	7.84 mg/m³
Long term – Systemic effects - General population	Oral	1.5 mg/kg bw/day
Short term – Systemic effects - General population	Oral	1.67 ng/kg bw/day

Triethylene Glycol Dimethacrylte

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	8.33 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	13.9 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	14.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	48.5 mg/m³
Long term – Systemic effects - General population	Oral	8.33 mg/kg bw/day

PNEC

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		870 ng/L
Freshwater sediment		17 µg/kg
Intermittent release (freshwater)		8.7 µg/L
Marine water		87 ng/L
Marine water sediment		1.7 µg/kg
Predators		10 mg/kg
Sewage treatment plant		6.25 mg/L
Soil		2.9 µg/kg

acrylic acid

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3 µg/L
Freshwater sediment		23.64 µg/kg
Intermittent release (freshwater)		1.3 µg/L
Marine water		300 ng/L
Marine water sediment		2.364 µg/kg
Predators		30 mg/kg
Sewage treatment plant		900 µg/L
Soil		1 mg/kg

Cumene

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		35 µg/L
Freshwater sediment		3.22 mg/kg
Intermittent release (freshwater)		12 µg/L
Marine water		3.5 µg/L
Marine water sediment		322 µg/kg
Sewage treatment plant		200 mg/L
Soil		624 µg/kg

Cumene hydroperoxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.1 µg/L
Freshwater sediment		23 µg/kg
Intermittent release (freshwater)		31 µg/L
Marine water		310 ng/L
Marine water sediment		2.3 µg/kg
Sewage treatment plant		350 µg/L
Soil		2.9 µg/kg

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1.4 µg/L
Freshwater sediment		115 µg/kg
Intermittent release (freshwater)		14 µg/L
Intermittent release (marine water)		1.4 µg/L
Marine water		140 ng/L
Marine water sediment		11.5 µg/kg
Soil		22.2 µg/kg

Hydroxycyclohexyl phenyl ketone

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3 µg/L
Freshwater sediment		35.6 µg/kg
Intermittent release (freshwater)		144 µg/L
Intermittent release (marine water)		14.4 µg/L
Marine water		300 ng/L
Marine water sediment		3.56 µg/kg
Sewage treatment plant		10 mg/L
Soil		5.37 µg/kg

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		800-1000 ng/L
Freshwater sediment		712 µg/kg
Intermittent release (freshwater)		800-1000 ng/L
Marine water		800-1000 ng/L
Marine water sediment		712 µg/kg
Sewage treatment plant		1 mg/L
Soil		20 mg/kg

Triethylene Glycol Dimethacrylte

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		16.4 µg/L

Freshwater sediment		185 µg/kg
Intermittent release (freshwater)		16.4 µg/L
Marine water		1.64 µg/L
Marine water sediment		18.5 µg/kg
Sewage treatment plant		1.7 mg/L
Soil		27.4 µg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin protection:

Recommended	Type/Category	Standards	
-	Protective Clothing		

Hand protection:

Nitrile Rubber

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Red
Odour / Odour threshold:	Sharp/pungent
pH:	No data available
Density (g/cm^3):	1.06
Kinematic viscosity:	No data available
Particle characteristics:	No data available

Phase changes

Melting point/Freezing point (°C):	No data available
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	>149
Vapour pressure:	< 5 mmHg
Relative vapour density:	No data available
Decomposition temperature (°C):	No data available

Data on fire and explosion hazards

Flash point (°C):	>93
Flammability (°C):	No data available
Auto-ignition temperature (°C):	No data available
Lower and upper explosion limit (% v/v):	No data available

Solubility

Solubility in water:	Slightly soluble
n-octanol/water coefficient (LogKow):	No data available
Solubility in fat (g/L):	No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100):	No data available
Oxidizing properties:	No data available
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Incompatible Materials
Mechanical influences (e.g. Shock, pressure, impact, friction). Fire, sparks or other ignition sources.
Extremes of temperature
Sunlight
Other light sources

10.5. Incompatible materials
Strong oxidizing agents
Peroxides
Metal
Strong bases
Free radical initiators

10.6. Hazardous decomposition products
Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

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

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Causes serious eye damage.

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

Skin sensitisation
May cause an allergic skin reaction.

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

Carcinogenicity
May cause cancer.

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.
Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate has been classified by IARC as a group 2B carcinogen.
acrylic acid has been classified by IARC as a group 3 carcinogen.
Cumene has been classified by IARC as a group 2B carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7 – Carcinogenic
HP 8 – Corrosive
HP 13 – Sensitising
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

Not applicable.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triethylene Glycol Dimethacrylte)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (-) See below for additional information.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triethylene Glycol Dimethacrylte)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L EmS: F-A S-F See below for additional

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
						information.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triethylene Glycol Dimethacrylte)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.
These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).
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ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
Hazchem Code: ●3Z

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application: Restricted to professional users.
People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to

	eliminate exposure, must be considered.
Demands for specific education:	No specific requirements.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes
UK-REACH, Annex XVII:	acrylic acid is subject to UK-REACH restrictions (entry 40). Cumene is subject to UK-REACH restrictions (entry 40).
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013. Control of Major Accident Hazards (COMAH) Regulations 2015. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H242, Heating may cause a fire.
H302, Harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
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.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H331, Toxic if inhaled.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H350, May cause cancer.
H351, Suspected of causing cancer.
H360Fd, May damage fertility. Suspected of damaging the unborn child.
H373, May cause damage to organs through prolonged or repeated exposure.
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.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

SDS Coordinator

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product.
Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en