

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ACRIFIX® 2R 0195

Other means of identification

None.

Recommended restrictions

Recommended use: polymerising adhesive for acrylic

Restrictions on use: Applications where liquid monomer is intended to come into contact with skin or nails.

Manufacturer/Importer/Distributor Information

Company Name : Roehm America LLC
299 Jefferson Road
Parsippany, NJ 07054
USA

Telephone : +1 800-225-0172

E-mail : product-regulatory-services@roehm.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Skin Corrosion/Irritation Category 2

Skin sensitizer Category 1

Specific Target Organ Toxicity -
Single Exposure Category 3¹

Target Organs

1. Respiratory tract irritation.

Environmental Hazards

Acute hazards to the aquatic
environment Category 3

Chronic hazards to the aquatic environment

Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire: Use carbon dioxide for extinction.

Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Methyl methacrylate		80-62-6	40 - 70%
acrylic copolymer, Polymer			15 - 40%
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)		112926-00-8	3 - 7%
methacrylic acid ester			1 - 5%
triethyleneglycol dimethacrylate		109-16-0	1 - 5%
thioglycolic acid 2-ethylhexyl ester	2-ethylhexyl 2- sulfanylacetate	7659-86-1	0.1 - <1%
2-(2H-benzotriazol-2-yl)-p-cresol		2440-22-4	0.1 - <1%
p-Toluidine ethoxylated		103671-44-9	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

- General information:** First aider needs to protect himself. Take off all contaminated clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
- Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, get medical attention.
- Skin Contact:** In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops or persists. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes.
- Eye contact:** In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.
- Ingestion:** If swallowed, only induce vomiting if directed by medical personnel. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.
- Personal Protection for First-aid Responders:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear., Containers can build up pressure if exposed to heat (fire)., Cool with water spray.

Most important symptoms/effects, acute and delayed

Symptoms: Excessive or prolonged exposure can cause the following:
Sensitization Daze Numbness Headache. Difficulty in breathing.liver damage loss of consciousness Irritation of skin and mucous membranes

Hazards: Vapours may cause drowsiness and dizziness. May be harmful if inhaled.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam Dry chemical. Carbon dioxide

Unsuitable extinguishing media: High volume water jet

Specific hazards arising from the chemical: May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition, nitric oxides, sulphur dioxide.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Vapours are heavier than air and can form an explosive mixture with air. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use only explosion-proof equipment. Ignitable mixtures can form in the empty container.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Assure sufficient ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly with soap and water after handling.

Methods and material for containment and cleaning up: Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

Environmental Precautions: Prevent product from getting into drains/surface water/groundwater. Contain spilled product and prevent any contamination of soil, the sewer system or water bodies. If the product contaminates rivers and lakes or drains inform respective authorities.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Safe handling advice: Do not inhale exhaust fumes, vapors, sprays or aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during use. Keep away from sources of ignition - No smoking. Take action to prevent static discharges. In the event of fire, cool the endangered containers with water. Vapours are heavier than air and can form an explosive mixture with air. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use only explosion-proof equipment. Ignitable mixtures can form in the empty container. Refer to section 15 for specific national regulation. Keep container tightly closed. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing mist or vapor. Use with adequate ventilation. Use only explosion-proof equipment. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Container hazardous when empty. Follow all SDS/label precautions even after the container is emptied because it may retain product residues. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Contact avoidance measures: No data available.

Hygiene measures: Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream. Take off contaminated clothing and wash it before reuse.

Storage

Safe storage conditions: Improper disposal or re-use of this container may be dangerous and illegal. Keep in the original container at a temperature not exceeding 25 °C (77 °F). Fill the container by approximately 90 % as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability. Store in a cool, dry place. Keep container closed. Protect from the action of light. Can polymerize with intense heat release.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Methyl methacrylate	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	100 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	100 ppm 410 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
triethyleneglycol dimethacrylate	PEL	100 ppm 410 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	AN ESL	100 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
silicon dioxide, chemically prepared, CAS no. 112945-52-5	ST ESL	1,000 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	REL	6 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	0.8 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
thioglycolic acid 2-ethylhexyl ester	AN ESL	3 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	ST ESL	30 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
2-(2H-benzotriazol-2-yl)-p-cresol	ST ESL	120 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	12 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)

Appropriate Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Use safety glasses (ANSI Z87.1 or approved equivalent).

Skin Protection

Hand Protection:	Material: butyl rubber gloves (minimal thickness 0.3 mm) Break-through time: 60 min Guideline: EN 374 Additional Information: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Additional Information: neoprene gloves, Suitable as spray protection.
Skin and Body Protection:	Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.
Respiratory Protection:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hygiene measures:	Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream. Take off contaminated clothing and wash it before reuse.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid thixotropic
Color:	Violet
Odor:	ester-like
Odor Threshold:	0.05 - 0.34 ppm (methyl methacrylate)
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	approx. 100 °C (1,013 hPa) approx. 212 °F
Flash Point:	10 °C (DIN 53213) Own study 50 °F (DIN 53213) Own study
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable liquid
Explosive limit - upper (%):	12.5 %(V) (methyl methacrylate)
Explosive limit - lower (%):	2.1 %(V) at 10,5°C / 33,8°F (methyl methacrylate)
Vapor pressure:	38.7 hPa (20 °C) (methyl methacrylate)
Vapor density (air=1):	> 1 68 °F
Density:	approx. 1.02 g/cm ³ (20 °C) (68 °F)
Relative density:	No data available.
Solubility in Water:	approx. 16 g/l (methyl methacrylate)

Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable Mixture
Self Ignition Temperature:	435 °C (DIN 51794) (methyl methacrylate) Auto Ignition Temperature 806 °F (DIN 51 794) The substance or mixture is not classified as pyrophoric.
Decomposition Temperature:	This product is stable under normal storage conditions.
Kinematic viscosity:	No data available.
Dynamic viscosity:	not determinable
Other information	
Explosive properties:	Vapours may form explosive mixtures with air
Oxidizing properties:	The substance or mixture is not classified as oxidizing. Not expected during handling from practical experience.

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	No decomposition if stored and applied as directed. This product is stable under normal storage conditions.
Possibility of hazardous reactions:	Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions. The same applies to the effect of light or UV-light respectively. Will not occur under normal conditions.
Conditions to avoid:	Avoid high temperatures and sources of ignition. Protect from the action of light. The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.
Incompatible Materials:	Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents. Mineral Acid Free radical initiators.
Hazardous Decomposition Products:	None when used as directed.

11. Toxicological information

General information: no specific test data available

Information on likely routes of exposure

Inhalation: May be harmful if inhaled.

Skin Contact: Causes skin irritation.

Eye contact: May irritate eyes.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Drowsiness, dizziness, disorientation, vertigo.
Skin Contact:	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
Eye contact:	Eye may become red, tear, and become painful.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Acute toxicity estimate: > 5,000 mg/kg

Dermal

Product: Acute toxicity estimate: > 5,000 mg/kg

Inhalation

Product: Acute toxicity estimate: > 40 mg/l

Repeated dose toxicity

Product: No data available.

Components:

triethyleneglycol
dimethacrylate

NOAEL (Rat, Oral): 1,000 mg/kg

2-(2H-benzotriazol-2-yl)-
p-cresol

NOAEL (Rat, Oral): 47 mg/kg (Target Organ(s): Liver) Repeated high-level exposure may cause liver damage.

Skin Corrosion/Irritation

Product: No data available.

Components:

Methyl methacrylate
Silicon dioxide,
chemically prepared
(CAS 112926-00-8
resp. 7631-86-9)

(Rabbit): Irritant
analogous OECD method (Rabbit): Not irritating

thioglycolic acid 2-
ethylhexyl ester

OECD Test Guideline 404 (Rabbit): Not irritating , 4 h

2-(2H-benzotriazol-2-
yl)-p-cresol

EPA OPP 81-5 (Rabbit): Not irritating

p-Toluidine ethoxylated

OECD Test Guideline 439 Irritating.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

acrylic copolymer,
Polymer

Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Components:

Methyl methacrylate	Local Lymph Node Assay (LLNA), OECD TG 429 (Mouse): May cause sensitization by skin contact. Not classified for respiratory sensitization
acrylic copolymer, Polymer	Not a skin sensitizer. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Not Classified Not classified for respiratory sensitization
triethyleneglycol dimethacrylate	Local Lymph Node Assay (LLNA) (Mouse): Skin sensitizer Not classified for respiratory sensitization
thioglycolic acid 2- ethylhexyl ester	, OECD Test Guideline 406 (Guinea Pig) Skin sensitizer Not classified for respiratory sensitization
2-(2H-benzotriazol-2- yl)-p-cresol	Maximization Test (GPMT), OECD Test Guideline 406 (Guinea Pig): Skin sensitizer Not classified for respiratory sensitization
p-Toluidine ethoxylated	Local Lymph Node Assay (LLNA), OECD Test Guideline 429 (Mouse): May cause sensitization by skin contact.

Carcinogenicity

Product: Not classified No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Methyl methacrylate	positive and negative	Not classified
acrylic copolymer,		Not classified
Polymer		
triethyleneglycol		Not classified
dimethacrylate		
2-(2H-benzotriazol-2-yl)-		Not classified
p-cresol		
p-Toluidine ethoxylated	gene mutation test (OECD Test Guideline 476):	positive

In vivo

Product: No data available.

Components:

Methyl methacrylate	Micronucleus test (OECD Test Guideline 474) Oral (Mouse):	Not classified
	dominant lethal test Inhalation (Mouse, male):	Not classified
acrylic copolymer,		Not classified
Polymer		
triethyleneglycol		Not classified
dimethacrylate		
thioglycolic acid 2-	(OECD Test Guideline 474) (Mouse)	negative
ethylhexyl ester		
2-(2H-benzotriazol-2-yl)-		Not classified
p-cresol		

Reproductive toxicity

Product: Not classified

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Methyl methacrylate	Category 3 with respiratory tract irritation.
acrylic copolymer,	Not classified No indications of critical properties in analogy to similar
Polymer	products or on the basis of structure-activity relationships.
Silicon dioxide,	no evidence for hazardous properties
chemically prepared	Not classified
(CAS 112926-00-8 resp.	
7631-86-9)	
triethyleneglycol	Not classified
dimethacrylate	
thioglycolic acid 2-	Not classified
ethylhexyl ester	
2-(2H-benzotriazol-2-yl)-	Not classified
p-cresol	
p-Toluidine ethoxylated	Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Methyl methacrylate acrylic copolymer, Polymer	Not classified
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships. no evidence for hazardous properties
triethyleneglycol dimethacrylate	Not classified
thioglycolic acid 2- ethylhexyl ester	Not classified
2-(2H-benzotriazol-2-yl)- p-cresol	Not classified
p-Toluidine ethoxylated	Not classified

Aspiration Hazard

Product: No data available.

Components:

Methyl methacrylate acrylic copolymer, Polymer	Not classified
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships. Not classified
triethyleneglycol dimethacrylate	Not classified
thioglycolic acid 2- ethylhexyl ester	Not classified
2-(2H-benzotriazol-2-yl)- p-cresol	Not classified no evidence for hazardous properties
p-Toluidine ethoxylated	Not classified

Other effects:

Avoid contact with the skin and eyes and inhalation of the product vapours. There are no toxicological data available for the product as such. No investigations were carried out with the preparation itself. The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Methyl methacrylate	LC 50 (96 h): > 100 mg/l Expert judgement
acrylic copolymer,	No data available.

Polymer

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l The reported toxic effects relate to the nominal concentration.

triethyleneglycol dimethacrylate LC 50 (Danio rerio (zebra fish), 96 h): 16.4 mg/l

thioglycolic acid 2-ethylhexyl ester LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): 0.23 mg/l

2-(2H-benzotriazol-2-yl)-p-cresol LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 0.17 mg/l The reported toxic effects relate to the nominal concentration. In the range of water solubility not toxic under test conditions.

p-Toluidine ethoxylated LC 50 (Cyprinus carpio, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

Methyl methacrylate EC 50 (Daphnia magna (Water flea), 48 h): 69 mg/l

acrylic copolymer, Polymer No data available.

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9) EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate to the nominal concentration.

thioglycolic acid 2-ethylhexyl ester EC 50 (Daphnia magna (Water flea), 48 h): 0.39 mg/l

2-(2H-benzotriazol-2-yl)-p-cresol EC 50 (Daphnia magna (Water flea), 24 h): > 1,000 mg/l The reported toxic effects relate to the nominal concentration. No toxicity at the limit of solubility

p-Toluidine ethoxylated EC 50 (Daphnia magna, 48 h): 48 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Methyl methacrylate NOEC (Danio rerio (zebra fish), 14 d): 9.4 mg/l

acrylic copolymer, Polymer No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Methyl methacrylate NOEC (Daphnia magna (Water flea), 21 d): 37 mg/l

acrylic copolymer,
Polymer

No data available.

triethyleneglycol
dimethacrylate

NOEC (Daphnia magna (Water flea), 21 d): 32 mg/l

2-(2H-benzotriazol-2-yl)-
p-cresol

NOEC (Daphnia magna (Water flea), 21 d): 0.013 mg/l Nominal concentration The test product is slightly soluble in the test medium.

Toxicity to Aquatic Plants

Product:

No data available.

Components:

Methyl methacrylate

EC 50 (Selenastrum capricornutum (green algae), 72 h): > 100 mg/l
NOEC (Selenastrum capricornutum (green algae), 72 h): > 110 mg/l

acrylic copolymer,
Polymer

No data available.

triethyleneglycol
dimethacrylate

EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 100 mg/l
NOEC (Pseudokirchneriella subcapitata (green algae), 72 h): 18.6 mg/l

thioglycolic acid 2-
ethylhexyl ester

EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): 0.91 mg/l

2-(2H-benzotriazol-2-yl)-
p-cresol

EC 50 (Green Algae, 72 h): > 100 mg/l Value relates to a similar product. The reported toxic effects relate to the nominal concentration. In the range of water solubility not toxic under test conditions.
EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 0.0822 mg/l growth rate

p-Toluidine ethoxylated

EC 50 (Pseudokirchneriella subcapitata (green algae), 72 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product:

94 % (14 d, OECD 301 C) Related to substance: methyl methacrylate (monomer constituent)

BOD/COD Ratio

Product:

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:

Significant bioaccumulation need not be expected. Information refers to the main component.

Partition Coefficient n-octanol / water (log Kow)

Product:

Log Kow: Not applicable Mixture

Mobility in soil:

Binding to the solid soil phase, sediment or clarification sludge is not expected. The substance evaporates gradually into the atmosphere from the surface of the water. If the substance does get into the environment, it tends to remain in the compartment it was discharged into. Related to substance: methyl methacrylate

Other adverse effects: Prevent substance from entering soil, natural bodies of water and sewer systems. The properties of this product which are characteristics posing a threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification". No ecotoxicological data is available for this product.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods: Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Evonik encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste.

Contaminated Packaging: Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

14. Transport information

Domestic regulation

49 CFR

UN/ID/NA number : UN 1133
Proper shipping name : Adhesives stabilized

Class : 3
Packing group : II
Labels : 3
ERG Code : 128
Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1133
Proper shipping name : Adhesives stabilized
Class : 3
Packing group : II
Labels : 3

Packing instruction (cargo aircraft) : 364

Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : UN 1133

Proper shipping name : ADHESIVES STABILIZED

Class : 3

Packing group : II

Labels : 3

EmS Code : F-E, S-D

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER	1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise Classified (HNOC)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)

Chemical Identity

Threshold Planning Quantity

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity

Methyl methacrylate

Reporting threshold for

other users

Otherwise used (non-manufacturing/processing)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Methyl methacrylate

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)

4-Heptanone, 2,6-dimethyl-

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Methyl methacrylate

Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

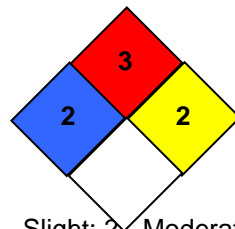
HMIS Hazard ID

Health	2
Flammability	3
Physical Hazards	2
PERSONAL PROTECTION	
B	

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Flammability
 Health
 Reactivity
 Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 02/18/2020

Version #: 3.0

Further Information: The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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