

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification		
Product identifier:		ACRIFIX® 2R 0195
Other means of identification		None.
Recommended use:		polymerising adhesive for acrylic
Recommended restrictions:		Applications where liquid monomer is intended to come into contact with skin or nails.
Manufacturer/Importer/Distributor Inform	nation	
CompanyName	:	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 Emergency	:	+1 800 424 9300 (CHEMTREC - US & CANADA) +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 3 (Respiratory tract irritation.)

## **Environmental Hazards**

Acute hazards to the aquatic	Category 3
environment	
Chronic hazards to the aquatic environment	Category 3

## **Label Elements**

## Hazard Symbol:

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	!
Signal Word:	Danger
Hazard Stater	ment: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	y
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 otherwi classified (HNOC):	<b>se</b> Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

## 3. Composition/information on ingredients

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## **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	2-(2-{2-[(2- methylprop-2- enoyl)oxy]eth oxy}ethoxy)et hyl 2- methylprop-2- enoate	109-16-0	1 - 5%
thioglycolic acid 2-ethylhexyl ester	2-ethylhexyl 2- sulfanylacetat e	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 medio	cal 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	d 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), ignitible 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), ignitible 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.
Storage Temperature:	No data available.

## 8. Exposure controls/personal protection

## Control Parameters Occupational Exposure Limits

Chemical Identity	Type Exposure Limit Values		iit Values	Source	
Methyl methacrylate	REL	100 ppm	410 mg/m3	US. NOSH: Pocket Guide to Chemical Hazards, as amended (2010)	
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)	
	STEL	100 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)	
	PEL	100 ppm	410 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)	
	IDLH	1,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)	
	TWA	100 ppm	410 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)	
	TWA	100 ppm	410 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)	
	AN ESL		50 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	ST ESL		210 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	AN ESL		210 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	ST ESL		860 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	TWA PEL	50 ppm	205 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)	
	STEL	100 ppm	410 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)	
triethyleneglycol dimethacrylate	AN ESL		100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	ST ESL		1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
silicon dioxide, chemically prepared, CAS no. 112945- 52-5	IDLH		3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)	
silicon dioxide, chemically prepared, CAS no. 112945- 52-5 - Particulate.	AN ESL		2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	ST ESL		27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
thioglycolic acid 2-ethylhexyl ester	AN ESL		3 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)	
	ST ESL		30 µg/m3	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/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as	



		amended (11 2016)
AN ESL	12 µg/m3	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

# **IRÖHM**

	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)
Relative vapor density:	> 1 68 °F
Density:	approx. 1.02 g/cm3 (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: Methyl methacrylate triethyleneglycol dimethacrylate 2-(2H-benzotriazol-2-yl)- p-cresol p-Toluidine ethoxylated	NOAEL (Rat, Inhalation(Vapour)): 25 ppm NOAEL (Rat, Oral): 2000 ppm NOAEL (Rat, Oral): 1,000 mg/kg NOAEL (Rat, Oral): 47 mg/kg (Target Organ(s): Liver) Repeated high-level exposure may cause liver damage. NOAEL (Rat, Oral): 200 mg/kg literature NOAEL (Rat, Oral): 100 mg/kg Subacute toxicity
Skin Corrosion/Irritation Product:	No data available.

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Methyl methacrylate	Draize (Rabbit): Irritant
Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	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 (Human, in vitro reconstituted epidermis model): Irritating.
Serious Eye Damage/Eye Irritatio	
Product: Components:	No data available.
acrylic copolymer, Polymer	Not irritating
Respiratory or Skin Sensitization Product:	n No data available.
Components: Methyl methacrylate	Local Lymph Node Assay (LLNA), OECD TG 429 (Mouse): May cause sensitization by skin contact.
acrylic copolymer, Polymer	Not classified for respiratory sensitization 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. Not a respiratory sensitizer
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 Evalua	ation of Carcinogenic Risks to Humans:

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

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## Germ Cell Mutagenicity



In vitro	
Product:	No data available.
Components:	
Methyl methacrylate acrylic copolymer, Polymer	positive and negative Not classified Not classified
triethyleneglycol dimethacrylate	Not classified
2-(2H-benzotriazol-2-yl)- p-cresol	Not classified
p-Toluidine ethoxylated	gene mutation test (OECD Test Guideline 476): positive Chromosomal aberration (OECD Test Guideline 473): negative Not classified based on available information.
In vivo	
Product:	No data available.
Components:	
Methyl methacrylate acrylic copolymer,	Micronucleus test (OECD Test Guideline 474) Oral (Mouse): Not classified dominant lethal test Inhalativ (Mouse, male): Not classified Not classified
Polymer	Not classified
triethyleneglycol dimethacrylate	Not classified
thioglycolic acid 2- ethylhexyl ester	(OECD Test Guideline 474) (Mouse)negative
2-(2H-benzotriazol-2-yl)- p-cresol	Not classified
p-Toluidine ethoxylated	in vivo assay (OECD Test Guideline 489) Oral (Rat, male): negative
Reproductive toxicity	
Product:	Not classified
Specific Target Organ Toxicity -	
Product: Components:	No data available.
Methyl methacrylate	Category 3 with respiratory tract irritation.
acrylic copolymer, Polymer	Not classified No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.
Silicon dioxide,	no evidence for hazardous properties
chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Not classified
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

## Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	

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Methyl methacrylate acrylic copolymer, Polymer Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)	Not classified 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 Not classified
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 Not classified 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
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, Polymer	No data available.

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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 aquati	c 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

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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 (BC Product:	F) Significant bioaccumulation need not be expected. Information refers to the main component.
Partition Coefficient n-octanol / w Product:	rater (log Kow) 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. Roehm 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**

<b>49 CFR</b> UN/ID/NA number Proper shipping name		UN 1133 Adhesives stabilized
Class Packing group Labels ERG Code Marine pollutant	:	3 II 3 128 no
International Regulations		
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	:	UN 1133 Adhesives stabilized 3 II 3 364 353
<b>IMDG-Code</b> UN number Proper shipping name	:	UN 1133 ADHESIVES STABILIZED
Class Packing group Labels EmS Code Marine pollutant	: : : : : : : : : : : : : : : : : : : :	3 II 3 F-E, S-D 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):

#### Chemical Identity

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER

## 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

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	<u>% by weight</u>
Methyl methacrylate	1.0%

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 guantities.

#### **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**

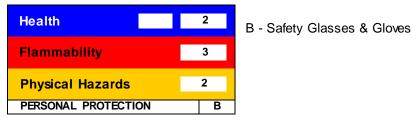
Methyl methacrylate Silicon dioxide, chemically prepared (CAS 112926-00-8 resp. 7631-86-9)

## US. Rhode Island RTK

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

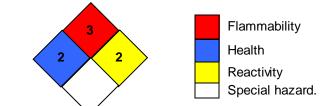
## 16.Other information, including date of preparation or last revision

## **HMIS Hazard ID**



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

## **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2- Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible		
Issue Date:	09/09/2020	
Version #:	3.1	
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.



#### Disclaimer:

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall ROEHM assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. ROEHM EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF ROEHM IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. ROEHM reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.