

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1/13/2015 Revision date: 6/20/2025 Supersedes version of: 3/2/2022 Version: 2.4

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

1.1. Product identifier	
Substance name CAS-No. Product code Formula (Override) Synonyms	 Substance ACRYLOXYMETHYLTRIMETHOXYSILANE 21134-38-3 SIA0182.0 C7H1405Si (TRIMETHOXYSILYLMETHYL)ACRYLATE / ACRYLOYLOXYMETHYLENE TRIMETHOXYSILANE / ACRYLIC ACID, (TRIMETHOXYSILYL)METHYL ESTER Trade product ORGANOMETHOXYSILANE
1.2. Relevant identified uses of the substanc	e or mixture and uses advised against
 1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against No additional information available 	: Chemical intermediate
1.3. Details of the supplier of the safety data	sheet
11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5 <u>CS-Gelest@m-chem.com</u> - <u>www.gelest.com</u>	5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixtu	re
Classification according to Regulation (EC) No. 12 Acute toxicity (inhal.), Category 4 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Skin sensitisation, Category 1 Hazardous to the aquatic environment – Chronic Haza Full text of H- and EUH-statements: see section 16	H332 H315 H318 H317 ard, Category 3 H412
Adverse physicochemical, human health and envir No additional information available	ronmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/20 Hazard pictograms (CLP)	008 [CLP]

Signal word (CLP) Hazard statements (CLP) GHS05 GHS07 : Danger : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

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	H318 - Causes serious eye damage.
	H332 - Harmful if inhaled.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing vapours.
	P264 - Wash hands thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type	: Mono-constituent
Name	: ACRYLOXYMETHYLTRIMETHOXYSILANE
CAS-No.	: 21134-38-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acryloxymethyltrimethoxysilane	CAS-No.: 21134-38-3	95 – 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Hydroquinone monomethyl ether	CAS-No.: 150-76-5 EC-No.: 205-769-8 EC Index-No.: 604-044-00-7	< 0.05	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317

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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Acrylates can have a sensitizing effect.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.

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Chronic symptoms	: On contact with water this compound liberates methanol which is known to have a chronic
	effect on the central nervous system. Methanol may effect the central nervous system
	resulting in persistent or recurring headaches or impaired vision.

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

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Foam. Carbon dioxide. Dry chemical.Do not use straight streams.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Combustible liquid. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces. Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist. 	
SECTION 6: Accidental release measur	es	
6.1. Personal precautions, protective equip	ment and emergency procedures	
General measures	: Remove ignition sources. Use special care to avoid static electric charges.	
6.1.1. For non-emergency personnel Protective equipment Emergency procedures	Wear protective equipment as described in Section 8.Evacuate unnecessary personnel.	

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment a	nd cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Use only non-sparking tools.
6.4. Reference to other sections	
See Section 8. Exposure controls and personal protect	ction.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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Precautions for safe handling Hygiene measures	 Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent formation of vapour. Use only non-sparking tools. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep container tightly closed. Store < 5°C.

: Store in a well-ventilated place. Store away from heat.

: Moisture. Water.

7.3. Specific end use(s)

Incompatible materials

Storage area

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls: Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2.1. Eye and face protection

Eye protection: Chemical goggles. Contact lenses should not be worn

8.2.2.2. Skin protection

Skin and body protection: Wear clothing impervious to the chemical substance. Hand protection: Wear gloves impervious to the chemical substance.

8.2.2.3. Respiratory protection

Respiratory protection:

NIOSH-certified air-purifying full facepiece respirator with an assigned protection factor (APF) of 50 in accordance with OSHA 29 CFR 1910.134.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

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9.1. Information on basic physical and ch	iemical properties
Physical state	: Liquid
Colour	: Straw.
Appearance	: Clear liquid.
Aolecular mass	: 206.27 g/mol
Ddour	: Mild.
Ddour threshold	: Not available
Melting point	: Not available
Freezing point	: <0°C
Boiling point	: 140 °C @ 100 mm Hg
Flammability	: Combustible liquid
Explosive limits	: Not available
ower explosion limit	: 1.252 vol %
Jpper explosion limit	: 10.547 vol %
Flash point	: 62 °C
Auto-ignition temperature	: 246 – 249 °C
Decomposition temperature	: Not available
рН	: Not available
/iscosity, kinematic	: Not available
Solubility	: Insoluble in water. Reacts with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
/apour pressure	: 0.1 mm Hg @ 25°C
/apour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.06
Relative vapour density at 20°C	: >1
Particle characteristics	: Not applicable
9.2. Other information	

No additional information available

9.2.2. Other safety characteristics

9.2.2. Other Safety characteristics	
VOC content	: < 5 %

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable in sealed containers stored in the dark at 0-5°C. Polymerization can occur when stored at elevated temperature.
10.3. Possibility of hazardous reactions
Reacts with water and moisture in air, liberating methanol.
10.4. Conditions to avoid
Heat. Open flame. Sparks.
10.5. Incompatible materials
Moisture. Water :

10.6. Hazardous decomposition products

Methanol. Organic acid vapors.

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Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Harmful if inhaled. Hydroquinone monomethyl ether (150-76-5) 1600 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other: LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other: LD50 dermal rabbit > 2000 mg/kg D50 dermal rat causes skin irritation. Hydroquinone monomethyl ether (150-76-5) pH 5.6 (aqueous solution) Serious eye damage/irritation : PH 5.6 (aqueous solution) Respiratory or skin sensitisation : Muscause anallergic skin reaction. Serious eye damage. PH S.6 (aqueous solution) Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified STOT-sepatel exposure : Not classified STOT-sepate exposure : Not classified STOT-sepate exposure : Not classified DSO-deral exposure : Not classified STOT-sepate exposure	SECTION 11: Toxicological information				
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LD50 oral rat 1600 mg/kg LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other: LD50 dermal rabbit > 2000 mg/kg Skin corrosion/irritation : Causes skin irritation. Hydroquinone monomethyl ether (150-76-5) F pH 5.6 (aqueous solution) Serious eye damage/irritation : Causes serious eye damage. Hydroquinone monomethyl ether (150-76-5) F pH 5.6 (aqueous solution) Serious eye damage/irritation : Causes serious eye damage. Hydroquinone monomethyl ether (150-76-5) F pH 5.6 (aqueous solution) Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified Carcinogenicity : Not classified StOT-repeated exposure : Not classified StOT-repeated exposure : Not classified Hydroquinone monomethyl ether (150-76-55) E LOAEL (oral, rat, 90 days) 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: NOAEL (oral, rat, 90 days) 300	Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	te toxicity (dermal) : Not classified			
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Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: Aspiration hazard : Not classified 11.2. Information on other hazards	LOAEL (oral, rat, 90 days)	Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test),			
11.2. Information on other hazards	NOAEL (oral, rat, 90 days)	Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test),			
	Aspiration hazard	: Not classified			
No additional information available	11.2. Information on other hazards				
	No additional information available				

SECTION 12: Ecological information

12.1. Toxicity

(acute)	Not classified Harmful to aquatic life with long lasting effects.		
Hydroquinone monomethyl ether (150-76-5)			
LC50 - Fish [1]	84.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC50 - Fish [2]	28.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])		
EC50 - Crustacea [1]	3 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)		

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Hydroquinone monome	thyl ether (150-76-5)				
C50 72h - Algae [2] 19 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)					
ErC50 algae		54.7 mg/l Source: EHCA	Irce: EHCA		
LOEC (chronic)		1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (chronic)	(0.68 mg/l Test organisms (speci	es): Daphnia magna Duration	: '21 d'	
12.2. Persistence and de	12.2. Persistence and degradability				
No additional information avai	ilable				
12.3. Bioaccumulative p	otential				
Hydroquinone monome	thyl ether (150-76-5)				
Partition coefficient n-octano	l/water (Log Pow)	1.34			
12.4. Mobility in soil					
No additional information avai	ilable				
12.5. Results of PBT and	d vPvB assessment				
No additional information avai	ilable				
12.6. Endocrine disrupti	ng properties				
No additional information avai	ilable				
12.7. Other adverse effect	cts				
Other adverse effects	: T	his substance may be hazardou	is to the environment.		
SECTION 13: Disposa	l considerations				
13.1. Waste treatment m	ethods				
Product/Packaging disposal re		lay be incinerated. Dispose in a		•	
Ecological waste information		vispose of contents/container to void release to the environment		y	
SECTION 14: Transpo	ort information				
In accordance with ADR / IMDG / IATA / ADN / RID					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not applicable Not applicable		Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: No			Dangerous for the environment: No	

This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons (450 liters). The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations. Therefore, no UN# is applicable to this product.

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

VOC Directive (2004/42)

VOC content : < 5 %

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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15.1.2. National regulations

Germany

Air Quality Control (TA Luft)					
Category	Class	Applicable on	Local name	Max. mass flow	Max. mass concentration
15.2. Chemical safety assessment					

.

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H412	Harmful to aquatic life with long lasting effects.	

SDS EU (REACH Annex II) - Custom v22

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