

## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: HazCom 2012

### 9-20558-MSA

Issuing Date 30-Mar-2023 Revision date 30-Mar-2023 Revision Number 31

## 1. Identification

**Product identifier** 

Product Name 9-20558-MSA

Other means of identification

Recommended use of the chemical and restrictions on use

**Recommended use** Adhesives and/or sealants.

Restrictions on use Consumer use.

Details of the supplier of the safety data sheet

Manufacturer

Dymax Corporation 318 Industrial Lane Torrington, CT 06790 Tel: 860-482-1010

Fax: 860-496-0608

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

	Emergency Overview	
Appearance transparent	Physical state Liquid	Odor Characteristic

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1A
Specific target organ toxicity (single exposure)	Category 3

#### Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Signal word Danger

**Hazard statements** 

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

### Other information

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

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### Mixture

Chemical name	CAS No	Trade secret	Weight-%
Acrylate Ester	Proprietary	*	25-39
Acrylic oligomer	Proprietary	*	10-24
Methacrylate Ester Monomer	Proprietary	*	10-24
Acrylate monomer	Proprietary	*	10-24
Acrylic Acid	79-10-7	*	3-<5
Photoinitiator	Proprietary	*	1-<3
Silane Coupling Agent	Proprietary	*	1-<3
Peroxide	Proprietary	*	<1

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	Visible photoinitiator	Proprietary	*	<1
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### 4. First-aid measures

### Description of first aid measures

#### **General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

#### Ingestion

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

#### Inhalation

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

#### Skin contact

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

#### Eye contact

Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

#### Self-protection of the first aider

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

#### Most important symptoms and effects, both acute and delayed

Burning sensation. Itching. Rashes. Hives.

#### Indication of any immediate medical attention and special treatment needed

### Note to physicians

May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

#### **Suitable Extinguishing Media**

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

#### Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

#### Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

#### **Hazardous combustion products**

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

#### **Explosion data**

Sensitivity to mechanical impact: None.
Sensitivity to static discharge: None.

#### Special protective equipment and precautions for fire-fighters

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

### **Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Other information

Refer to protective measures listed in Sections 7 and 8.

#### Methods and material for containment and cleaning up

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

#### Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### Reference to other sections

See section 8 for more information. See section 13 for more information.

## Section 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

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

## 8. Exposure controls/personal protection

### Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Acrylic Acid	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m³ (vacated) S*	TWA: 2 ppm TWA: 6 mg/m³

### Appropriate engineering controls

### **Engineering controls**

Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

#### Hand protection

Wear suitable gloves. Nitrile rubber, Butyl rubber.

#### Eye/face protection

Tight sealing safety goggles.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

#### Respiratory protection

#### **Environmental exposure controls**

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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:

Appearance:

Color:

Odor:

Liquid

transparent

colorless

Characteristic

Odor threshold: No information available

PropertyValuesRemarks • MethodpH:No data availableNo information available

pH: No data available No information available pH (as aqueous solution): No data available Not applicable

Melting point / freezing point:

No data available

No information available

No information available

No information available

Flash point: 101 °C / 213.8 °F Pensky-Martens Closed Cup (PMCC)

**Evaporation rate:** No data available No information available

Flammability (solid, gas): No data available Not applicable

Flammability Limit in Air

Upper flammability or explosive No data available No information available limits:

Lower flammability or explosive No data available No information available

limits:

Vapor pressure: No data available No information available Relative vapor density: No data available No information available Relative density: No data available No information available Water solubility: partially soluble No information available Solubility(ies): No data available No information available Partition coefficient: No data available No information available 238 °C / 460.4 °F **Autoignition temperature:** No information available **Decomposition temperature:** No data available No information available Kinematic viscosity: No information available No data available

**Dynamic viscosity:** 20,000 cP

Other information

**Explosive properties:** No information available

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Oxidizing properties:

No information available
VOC Content (%):
No information available
Liquid Density:
No information available
No information available

## 10. Stability and reactivity

#### Reactivity

No information available.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous polymerization**

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks. Protect from light.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous decomposition products

None under normal use conditions.

## 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

#### Inhalation:

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

#### Eve contact:

Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

#### Skin contact:

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

### Ingestion:

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

### **Acute toxicity**

#### The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 4,324.70 mg/kg ATEmix (dermal): 4,612.10 mg/kg ATEmix (inhalation-dust/mist): 69.30 mg/l

### **Unknown acute toxicity**

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

**Component Information:** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acrylate Ester	= 4890 mg/kg (Rat)	> 3000 mg/kg ( Rabbit )	-
Methacrylate Ester Monomer	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Acrylate monomer	•	> 2000 mg/kg (Rabbit) 1000 - 2000 mg/kg (Rabbit )	-
Acrylic Acid	= 193 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 11.1 mg/L ( Rat ) 1 h = 3.6 mg/L ( Rat ) 4 h
Photoinitiator	= 1694 mg/kg (Rat)	= 6929 mg/kg ( Rat )	-
Silane Coupling Agent	= 23.5 g/kg (Rat)	> 2000 mg/kg (Rat)	> 2.28 mg/L (Rat)6 h
Peroxide	= 1012 mg/kg (Rat)	= 3817 mg/kg ( Rabbit )	1.01 - 4.9 mg/L (Rat) 4 h
Visible photoinitiator	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

### Symptoms related to the physical, chemical and toxicological characteristics

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

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Skin corrosion/irritation:

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

### Serious eye damage/eye irritation:

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

### Respiratory or skin sensitization:

May cause sensitization by skin contact.

#### Germ cell mutagenicity:

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

### Carcinogenicity:

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Acrylic Acid	-	Group 3	-	-

#### Legend:

### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

### Reproductive toxicity:

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

### STOT - single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

### STOT - repeated exposure:

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

#### Target organ effects:

Respiratory system. Eyes. Skin.

#### **Aspiration hazard:**

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

# 12. Ecological information

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

#### **Product Information**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Acrylate Ester	ErC 50 = 2.7 mg/L 96h	LC50: =0.704mg/L 96h	EC 50 = 1.1 mg/L 48 h
	(Pseudokirchneriella subcapitata)	(Danio rerio)	(Daphnia magna)
Methacrylate Ester Monomer	-	LC50: 213 - 242mg/L (96h,	EC50 > 380 mg/l 48 h (Daphnia
		Pimephales promelas)	magna)
		LC50: =227mg/L (96h,	
		Pimephales promelas)	
Acrylic Acid	EC50: =0.04mg/L	LC50: =222mg/L (96h,	EC50:=95mg/L (48h, Daphnia
	(72h, Desmodesmus subspicatus)	Brachydanio rerio) NOEC: >=	magna)
	EC50: =0.17mg/L	10.1mg/L (45d, Oryzias latipes,	NOEC: =3.8mg/L (21d, Daphnia
	(96h, Pseudokirchneriella	OECD 210)	magna)
	subcapitata)		
Silane Coupling Agent	EC50 > 536,00 mg/l 72 h	LC50: >100mg/L	EC50 > 876,00 mg/l 48 h
	(Scenedesmus subspicatus)	(96h Danio rerio)	(Daphnia magna)
Peroxide	ErC50 = 0.8 mg/l 72h } par (Green	LC50: =1.6mg/L 96h	EC50 = 11 mg/l 48h
	Algae)	(Danio rerio)	(Daphnia magna)
Visible photoinitiator	-	LC50: >90µg/L	-
·		(96h, Danio rerio)	

### Persistence and degradability

No information available.

### Bioaccumulation

There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Acrylate Ester	4.52
Acrylic oligomer	2.03
Methacrylate Ester Monomer	0.42
Acrylate monomer	1.2
Acrylic Acid	0.46
Photoinitiator	1.62
Silane Coupling Agent	2.1
Peroxide	3
Visible photoinitiator	5.8

### Other adverse effects

No information available.

# 13. Disposal considerations

### Waste treatment methods

## Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

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#### Contaminated packaging

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

US EPA Waste Number: U008 U140 U220 U239

### 14. Transport information

IMDGNot regulatedIATANot regulatedDOTNot regulated

## 15. Regulatory information

**International Inventories** 

#### US TSCA inactive/active designation - Active

TSCA - Complies

**AIIC** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Not Listed **NZIoC** Complies TCSI Not Listed

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

AIICS - Australian Industrial Chemicals Introduction Scheme

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Acrylate monomer	1.0
Acrylic Acid	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Acrylic Acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:



Chemical name	California Proposition 65
Photoinitiator	Carcinogen
(<1)	
Ethyl benzene	Carcinogen
100-41-4 ( <0.1 )	
Phenyl glycidyl ether	Carcinogen
122-60-1 (<0.1)	

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Acrylate monomer	X	-	X
Acrylic Acid	X	X	X
Peroxide	X	X	X
Xylene	X	X	X
Ethyl benzene	X	X	X
Isobutyl alcohol	X	X	X
Phenyl glycidyl ether	X	X	X
tert-Butyl hydroperoxide	X	X	X
Antioxidant	X	X	X

#### U.S. EPA Label Information

### **EPA Pesticide Registration Number**

Not applicable

# 16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Special hazards - HMIS Health hazards 3 \* Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend: \*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**The symbol (\*) in the margin of this SDS indicates that this line has been revised

#### Disclaimer

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**End of Safety Data Sheet**