

Safety Data Sheet

according to HazCom 2012

SDS # : 9309-SC

9309-SC

Issue Date 2018-03-15

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Version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 9309-SC

Other means of identification

Product Code 9309-SC

Synonyms Not applicable

Recommended use of the chemical and restrictions on use

Identified uses Adhesives.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Dymax Corporation
 318 Industrial Lane
 Torrington, CT 06790
 Tel: 860-482-1010
 Fax: 860-496-0608

Information department: North American Safety Department @ 1-860-482-1010

Emergency Telephone North America: Chemtrec @ 1-800-424-9300 (24hrs)

2. HAZARDS IDENTIFICATION

Emergency Overview

| | | | |
|-----------------------|----------------|-------------------|-------------|
| Physical state | liquid | Color | blue |
| Odor | Characteristic | Appearance | translucent |

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|-------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1B |
| Reproductive toxicity | Category 2 |

GHS Label elements, including precautionary statements



Signal word Danger

Hazard statements

H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H332 - Harmful if inhaled
 H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

None

Other Information

Unknown acute toxicity

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

Testing for acute and chronic aquatic effects determined no environmental classification is required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Chemical Name | CAS No. | Weight-% | Trade Secret | Classification (Reg. 1272/2008) |
|----------------------------------|-------------|----------|--------------|---|
| Aliph. Urethane Acrylate Monomer | Proprietary | 10-24 | * | Acute Tox. Cat 4 (H332) Skin Sens. Cat 1 (H317) Aquatic Chronic 2 (H411) |
| N,N-Dimethylacrylamide | 2680-03-7 | 10-24 | * | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Dam. 1 (H318) Flam. Liq. 4 (H227) |
| 2-Hydroxyethyl methacrylate | 868-77-9 | 10-24 | * | Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) |
| Isobornyl Acrylate | 5888-33-5 | 4-9 | * | Skin Irrit. Cat 2 (H315) Eye Irrit. Cat 2A (H319) Skin Sens. Cat 1 (H317) STOT SE Cat 3 (H335) |

| | | | | |
|------------------------|-------------|----|---|---|
| Visible Photoinitiator | Proprietary | <1 | * | Aquatic Chronic 1 (H411) Skin Sens. 1B (H317) Repr. 2 (H361f) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411) |
|------------------------|-------------|----|---|---|

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

Skin Contact

Wash off immediately with plenty of water, Get medical attention if irritation develops and persists.

Inhalation

Remove to fresh air, If symptoms persist, call a physician.

Ingestion

If swallowed, Rinse mouth, Get medical attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Main Symptoms

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hazardous combustion products

Hazardous decomposition products due to incomplete combustion.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

Environmental precautions**Environmental precautions**

Do not allow material to contaminate ground water system, Try to prevent the material from entering drains or water courses, See Section 12 for additional Ecological Information, Local authorities should be advised if significant spillages cannot be contained.

Other Information

See Section 12 for additional Ecological Information.

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).

7. HANDLING AND STORAGE**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**Technical measures and storage conditions**

Keep container tightly closed in a dry and well-ventilated place

Protect from light

Incompatible products

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls**Engineering Measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses with side-shields, If splashes are likely to occur, wear:, Goggles.

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required, Do not breathe vapors, mist or gas.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice, When using do not eat, drink or smoke, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | |
|---|--------------------------|---------------------------|--------------------------|
| Physical state | liquid | Odor | Characteristic |
| Appearance | translucent | Odor threshold | No information available |
| Color | blue | | |
| Property | Values | Remarks / • Method | |
| pH | | No information available | |
| Melting point / freezing point | | No information available | |
| Boiling point / boiling range | | No information available | |
| Flash point | 101 °C / 214 °F | | |
| Evaporation rate | | No information available | |
| Flammability (solid, gas) | | No information available | |
| Flammability Limit in Air | | | |
| Upper flammability limit | - | | |
| Lower flammability limit | - | | |
| Vapor pressure | | No information available | |
| Vapor density | | No information available | |
| Specific Gravity | | No information available | |
| Water Solubility | Practically insoluble | | |
| Solubility in other solvents | | No information available | |
| Partition coefficient: n-octanol/water | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Dynamic viscosity | ~ 40,000 cP | | |
| Kinematic viscosity | | No information available | |
| Explosive properties | No information available | | |
| Oxidizing properties | No information available | | |
| Other Information | | | |
| Softening point | No information available | | |
| Molecular weight | No information available | | |
| VOC Content (%) | No information available | | |
| Density | No information available | | |
| Bulk density | 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.

Conditions to avoid

Protect from light. Heat, flames and sparks.

Incompatible materials

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers.

Hazardous Decomposition Products

No decomposition if stored and applied as directed.

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| 11. TOXICOLOGICAL INFORMATION |
|--------------------------------------|

Information on toxicological effects**Acute toxicity****Information on likely routes of exposure**

| | |
|---------------------|-----------------------------------|
| Inhalation | There is no data for this product |
| Eye contact | There is no data for this product |
| Skin Contact | There is no data for this product |
| Ingestion | There is no data for this product |
| | |
| Symptoms | No information available. |

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

| | |
|------------------------------|--|
| Sensitization | May cause sensitization of susceptible persons. |
| Mutagenic effects | No information available. |
| Reproductive toxicity | No information available. |
| Carcinogenicity | Contains no ingredients above reportable quantities listed as a carcinogen. |
| Aspiration hazard | No information available. |
| Other adverse effects | No information available. |
| Chronic toxicity | Repeated contact may cause allergic reactions in very susceptible persons Avoid repeated exposure |

Numerical measures of toxicity - Product Information

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

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

| | |
|--------------------------------------|------------|
| ATEmix (oral) | 2079 mg/kg |
| ATEmix (dermal) | 5968 mg/kg |
| ATEmix (inhalation-gas) | 5106 mg/l |
| ATEmix (inhalation-dust/mist) | 1.7 mg/l |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|--------------------|-----------------------|-------------------|
| Aliph. Urethane Acrylate Monomer | >5000 mg/kg (Rat) | | |
| N,N-Dimethylacrylamide | 252 mg/kg (Rat) | 907mg/kg (Rabbit) | 776 ppm (Rat) 1 h |
| 2-Hydroxyethyl methacrylate | = 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | |
| Isobornyl Acrylate | = 4890 mg/kg (Rat) | > 5 g/kg (Rabbit) | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Acute aquatic toxicity**Product Information**

Testing for acute and chronic aquatic effects determined no environmental classification is required.

Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|-----------------------------|---|---|---|
| N,N-Dimethylacrylamide | - | LC50 > 120 mg/L 96 h (Oncorhynchus mykiss) | EC50 > 120 mg/l 48 h (Daphnia magna) |
| 2-Hydroxyethyl methacrylate | - | LC50 = 227 mg/L 96 h (Pimephales promelas) | EC50 > 380 mg/l 48 h (Daphnia magna) |
| Isobornyl Acrylate | ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata) | LC50 = 1.8 mg/L 96 h (Danio rerio) | EC 50 = 1.1 mg/L 48 h (Daphnia magna) |
| Visible Photoinitiator | - | LC50 10 mg/l 48 h (Oryzias latipes) | - |

Persistence and degradability No information available.

Bioaccumulation**Component Information**

| Chemical Name | log Pow |
|-----------------------------|---------|
| 2-Hydroxyethyl methacrylate | 0.47 |
| Isobornyl Acrylate | 4.52 |

Mobility in soil

No product level data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Waste Disposal Methods**

Dispose of waste in compliance with local and national regulations.

Contaminated packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

| | |
|-------------------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>ICAO/IATA</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

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| 15. REGULATORY INFORMATION |
|----------------------------|

International Inventories

| | |
|----------------------|------------|
| TSCA | Complies |
| AICS | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECI | Complies |
| NZIoC | Complies |
| PICCS | Not listed |
| TCSI | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
AICS - Australian Inventory of Chemical Substances
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
NZIoC - New Zealand Inventory of Chemicals
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

Prepared By EHS Department
Revision Date 2018-03-15

Revision Note No information available

Disclaimer

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Dymax Corporation and its subsidiaries and affiliates (DYMAX). The information in this SDS relates only to the specific material designated herein. DYMAX assumes no legal responsibility for use of or reliance upon the information in this SDS.

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