

Safety Data Sheet

according to HazCom 2012

SDS # : 55204

55204

Issue Date
2020-09-21

Revision Date 2020-09-21

Version 1

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

Product identifier

Product Name 55204

Other means of identification

Product Code 55204
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)

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|---------------------------|
| 2. HAZARDS IDENTIFICATION |
|---------------------------|

Emergency Overview

| | | | |
|-----------------------|----------------|-------------------|-----------|
| Physical state | liquid (gel) | Color | colorless |
| Odor | Characteristic | Appearance | opaque |

Classification

| | |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization | Category 1 |

Target Organ Effects
 EYES, Skin.

GHS Label elements, including precautionary statements



Signal word

Warning

Hazard statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Store in a dry place. Store in a closed container

Keep at temperatures between 1°C and 5°C

Protect from moisture

Precautionary Statements - Disposal

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

Other Information**Unknown acute toxicity**

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% | Trade Secret | Classification (Reg. 1272/2008) |
|------------------------------|-------------|----------|--------------|--|
| Cycloaliphatic Epoxide Resin | Proprietary | 25-39 | * | Skin Sens. 1 (H317) Aquatic Chronic 3 (H412) |
| Epoxy resin | Proprietary | 1-<3 | * | Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412) |
| Glycidyl Ether | Proprietary | <1 | * | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) |
| Photoinitiator | Proprietary | <1 | * | Skin Sens. 1 (H317) Aquatic Chronic 3 (H412) |

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

Keep at temperatures between 1°C and 5°C

Protect from moisture

Incompatible products

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

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

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------|----------------------------|--|--|
| Photoinitiator (<1 %) | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ (vacated) TWA: 0.5 mg/m ³ | IDLH: 50 mg/m ³ TWA: 0.5 mg/m ³ |

ACGIH (American Conference of Governmental Industrial Hygienists)

TLV - Threshold Limit Value

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL - Permissible Exposure Limits

NIOSH IDLH

Immediately Dangerous to Life or Health

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

Hand Protection

Nitrile rubber, (NBR: 6mm), 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.

Respiratory protection

Ensure adequate ventilation, A NIOSH-approved respirator with a minimum APF of 50, or 1000 if spray applied, in accordance with 29 CFR 1910.134, 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, Contaminated work clothing should not be allowed out of the workplace, 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 (gel) | Odor | Characteristic |
| Appearance | opaque | Odor threshold | No information available |
| Color | colorless | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks / • Method</u> |
|---|--------------------------|---------------------------|
| pH | | No information available |
| Melting point / freezing point | | No information available |
| Boiling point / boiling range | | No information available |
| Flash point | > 101 °C / > 213 °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 | 58,000 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

| | |
|--|--|
| Serious eye damage/eye irritation | Irritating to eyes. |
| 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 |

Other Information

| | |
|-------------------------------|---------------------------|
| Developmental Toxicity | No information available. |
| Target Organ Effects | EYES, Skin. |
| Aspiration hazard | No information available. |
| Other adverse effects | No information available. |

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) | 54000 mg/kg |
| ATEmix (dermal) | 53810 mg/kg |
| ATEmix (inhalation-dust/mist) | 71.4 mg/l |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------|--|---|-----------------|
| Cycloaliphatic Epoxide Resin | = 5000 mg/kg (Rat) = 4490 mg/kg (Rat) | = 23600 mg/kg (Rabbit) = 20 mL/kg (Rabbit) | |
| Epoxy resin | = 1134 mg/kg (Rat) | | |
| Glycidyl Ether | = 17100 mg/kg (Rat) | > 3987 mg/kg (Rabbit) | |
| Photoinitiator | > 2000 mg/kg (Rat) | | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

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

Acute aquatic toxicity**Product Information**

No information available

Component Information

| Chemical Name | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to algae |
|------------------------------|---|---|--|
| Cycloaliphatic Epoxide Resin | LC50 24 mg/L 96 hr (Oncorhynchus mykiss) | - | - |
| Epoxy resin | LC50 24 mg/l 96 h (Danio rerio) | EC50 75 mg/l 48 h (Daphnia magna) | EC50 >160 mg/l 72 h (Pseudokirchneriella subcapitata) |

Persistence and degradability No information available.

Bioaccumulation

Component Information

| Chemical Name | log Pow |
|------------------------------|---------|
| Cycloaliphatic Epoxide Resin | 1.34 |
| Epoxy resin | 0.27 |

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

DOT

Not regulated

ICAO/IATA Not regulatedIMDG/IMO Not regulated**15. REGULATORY INFORMATION****International Inventories**

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

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 chemical is considered hazardous by the 2012 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 | No |
| 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**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
|---------------|------------|---------------|--------------|

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| | | | |
|--|---|---|--|
| Fused Silica (Amorphous) 60676-86-0 (40-69 %) | X | X | |
|--|---|---|--|

California Proposition 65

This product does not contain any Proposition 65 chemicals

Additional information

None

16. OTHER INFORMATION

Prepared By

EHS Department

Revision Date

2020-09-21

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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