

SAFETY DATA SHEET

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

9702

Issuing Date 11-Nov-2021 Revision date 11-Nov-2021 Revision Number 30

1. Identification

Product identifier

Product Name 9702

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Adhesives.

Restrictions on useNo information available.

Details of the supplier of the safety data sheet

Manufacturing sites Supplier

Dymax Corporation

Hanaray Chemical (S.H.) Co., Ltd

318 Industrial Lane

No.111, Muhua Road, SCIP, Shanghai,

Torrington, CT 06790

China

Torrington, CT 06790 China
Tel: 860-482-1010 Postal code: 201424

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 2A |
| Skin sensitization | Category 1A |
| Specific target organ toxicity (single exposure) | Category 3 |

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Signal word Warning

Hazard statements
Causes skin irritation.

Causes serious eye irritation. 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: Remove victim to fresh air and keep at rest in a position 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.

<u>Mixture</u>

| Chemical name | CAS No | Trade secret | Weight-% |
|--|-------------|--------------|----------|
| Acrylate Ester | Proprietary | * | 10-24 |
| Aliphatic Acrylate Monomer | Proprietary | * | 10-24 |
| Methacrylate Ester Monomer | Proprietary | * | 10-24 |
| Photoinitator | Proprietary | * | <1 |
| Decanedioic acid, | 41556-26-7 | * | <1 |
| 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester2 | | | |

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

4. First-aid measures

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Inhalation

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

Skin contact

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

Eve contact

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. Get medical attention if irritation develops and persists.

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

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

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

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

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

Explosion data

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

Special protective equipment and precautions for fire-fighters

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. Ensure adequate ventilation. Use personal protective equipment as required. 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

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 controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

General hygiene considerations

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

clothing.

Hand protection

Wear suitable gloves. Nitrile rubber, Butyl rubber.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear suitable protective clothing. Long sleeved 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.

Environmental exposure controls

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

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

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH:No data available
No information available

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

Melting point / freezing point:No data availableNo information availableBoiling point / boiling range:No data availableNo information available

Flash point: 101 °C / 214 °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:

minus.

Lower flammability or explosive No data available No information available

limits:Vapor pressure:No data availableNo information availableRelative vapor density:No data availableNo information available

Relative density: No information available No data available Water solubility: partially soluble No information available Solubility(ies): No data available No information available No data available Partition coefficient: No information available Autoignition temperature: 287 °C / 548.6 °F No information available **Decomposition temperature:** No data available No information available

Kinematic viscosity:

No data available

Pynamic viscosity:

950 cP

Other information

Explosive properties:

Oxidizing properties:

No information available
No Content (%):

No information available

No information available

Liquid 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.

Hazardous polymerization

None under normal processing.

Conditions to avoid

Protect from light. Heat, flames and sparks.

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.

Eye contact:

Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact:

May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. 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.

Acute toxicity

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

ATEmix (oral): 16,309.20 mg/kg ATEmix (dermal): 8,793.10 mg/kg

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) | - |
| | | | |

| Aliphatic Acrylate Monomer | > 2000 mg/kg (Rat) | > 5000 mg/kg (Rat) | > 0.69 mg/L (Rat)8 h |
|---|--------------------|-------------------------|----------------------|
| Methacrylate Ester Monomer | = 5050 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |
| Photoinitator | > 2000 mg/kg (Rat) | > 2000 mg/kg(Rat) | - |
| Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester2 | = 2615 mg/kg (Rat) | - | - |

Symptoms related to the physical, chemical and toxicological characteristics

Itching. Rashes. Hives. Redness. 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 serious eye irritation.

Respiratory or skin sensitization: May cause sensitization by skin contact.

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met.

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

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

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: Not classified. Based on available data, the classification criteria are not met.

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 | Fish | Toxicity to | Crustacea |
|--|-----------------------|---------------------|----------------|---------------------|
| | plants | | microorganisms | |
| Acrylate Ester | ErC 50 = 2.7 mg/L 96 | LC50: =0.704mg/L | <u>=</u> | EC 50 = 1.1 mg/L 48 |
| | h | (96h, Danio rerio) | | h (Daphnia magna) |
| | (Pseudokirchneriella | | | |
| | subcapitata) | | | |
| Methacrylate Ester Monomer | - | LC50: 213 - 242mg/L | = | EC50 > 380 mg/l 48 |
| | | (96h, Pimephales | | h (Daphnia magna) |
| | | promelas) | | |
| | | LC50: =227mg/L | | |
| | | (96h, Pimephales | | |
| | | promelas) | | |
| Photoinitator | - | LC50: >90µg/L (96h, | = | - |
| | | Danio rerio) | | |
| Decanedioic acid, | - | LC50: =0.97mg/L | - | - |
| 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester2 | | (96h, Lepomis | | |
| | | macrochirus) | | |

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|--|-----------------------|
| Acrylate Ester | 4.52 |
| Methacrylate Ester Monomer | 0.47 |
| Photoinitator | 5.8 |
| Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester2 | 0.37 |

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

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

Contaminated packaging

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

14. Transport information

IMDG Not regulated

<u>IATA</u> Not regulated

DOT Not regulated

15. Regulatory information

International Inventories

TSCA Complies

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

AIIC Not Listed
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies

IECSC Simplified Notification

KECL Low Volume Exemption (LVE)

PICCS Not Listed
NZIOC Not Listed
TCSI Not Listed

Legend:

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

AIICS - Australian Industrial Chemicals IntroductionScheme

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 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

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, 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.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Glycol Ether | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number

Not applicable

16. Other information

| <u>NFPA</u> | Health hazards 2 | Flammability 1 | Instability 0 | Special hazards - |
|-------------|------------------|----------------|--------------------|-----------------------|
| <u>HMIS</u> | Health hazards 2 | Flammability 1 | Physical hazards 0 | Personal protection X |

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| 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

Revision date 11-Nov-2021

Revision Note

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

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End of Safety Data Sheet