

1 Identification of substance**Product details**

<i>Trade name:</i>	7608-SR
<i>Application of the substance / the preparation</i>	Adhesives
<i>Manufacturer/Supplier:</i>	Dymax Corporation 318 Industrial Lane Torrington, CT 06790 USA Tel: 860-482-1010 Fax: 860-496-0608
<i>Information department:</i>	Corporate Safety Department @ 1-860-482-1010
<i>Emergency information:</i>	North America: Chemtrec @ 1-800-424-9300 (24hrs) International: Chemtrec @ 001-703-527-3887 (24hrs)

2 Composition/Data on components**Chemical characterization**

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:

Urethane (Meth)Acrylate Oligomer	50-75%
88-12-0 1-vinyl-2-pyrrolidone	15-25%
868-77-9 2-Hydroxyethyl methacrylate	5-10%
Photoinitiator	1-5%
Rheological Additive	1-5%

3 Hazards identification

Hazard description: Harmful
Dangerous for the environment

Information pertaining to particular dangers for man and environment:

The product has to be labeled due to the calculation procedure of international guidelines.
Irritating to respiratory system.
Limited evidence of a carcinogenic effect.
Risk of serious damage to eyes.
May cause sensitisation by skin contact.
Danger of serious damage to health by prolonged exposure.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 1

HMS-ratings (scale 0 - 4)

Health = *2
Fire = 1
Reactivity = 1

4 First aid measures

General information: In case of overexposure, medical observation for at least 48 hours after the incident is recommended.

After inhalation: Of mists or aerosol: Remove to fresh air and contact a doctor.
Of vapors: Remove to fresh air. If symptoms develop seek medical attention.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Seek medical treatment.

5 Fire fighting measures

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Please refer to Section 8 for more information.

* 6 Accidental release measures

Person-related safety precautions:	Wear protective clothing. Wear suitable gloves and eye/face protection.
Measures for environmental protection:	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

Handling:

<i>Information for safe handling:</i>	Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
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<i>Information about protection against explosions and fires:</i>	No special measures required.
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Storage:

<i>Requirements to be met by storerooms and receptacles:</i>	Store only in unopened original receptacles.
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<i>Information about storage in one common storage facility:</i>	Not required.
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<i>Further information about storage conditions:</i>	Keep receptacle tightly sealed. Protect from exposure to the light. Avoid loss of dissolved air, loss of inhibitor, and contamination with incompatible materials.
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<i>Maximum storage temperature:</i>	< 38°C (100°F)
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* 8 Exposure controls and personal protection

Additional information about design of technical systems:	No further data; see item 7.
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Components with limit values that require monitoring at the workplace:

88-12-0 1-vinyl-2-pyrrolidone

TLV 0.23 mg/m³, 0.05 ppm

<i>Additional information:</i>	The lists that were valid during the creation were used as basis.
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Personal protective equipment:

<i>General protective and hygienic measures:</i>	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes.
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<i>Breathing equipment:</i>	Local exhaust ventilation is recommended when general ventilation is not sufficient to keep vapor or mist concentrations below permissible exposure limits (See ACGIH – Industrial Ventilation). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if permissible exposure limits are exceeded, if irritation occurs or other symptoms are experienced.
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<i>Protection of hands:</i>	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
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<i>Material of gloves</i>	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Nitrile rubber, NBR
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<i>Penetration time of glove material</i>	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
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<i>Eye protection:</i>	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
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<i>Eye protection:</i>	Eye protection with side shields. When there is a potential for a splash hazard, chemical goggles should be used.
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9 Physical and chemical properties**General Information**

Form: Fluid
Color: According to product specification
Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 205°C (401°F)

Flash point: > 55°C (> 131°F)

Ignition temperature: 214°C (417°F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Vapor pressure at 20°C (68°F): 0.1 hPa

Density: Not determined.

Solubility in / Miscibility with
Water: Not miscible or difficult to mix.

10 Stability and reactivity**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Materials to be avoided:

Oxidizers, amines, strong Lewis acids, mineral acids, and thiosulfates

Dangerous reactions

No dangerous reactions known.

Dangerous products of decomposition:

Irritant fumes/vapors

Additional information:

Smoke and toxic fumes may be evolved as a result of uncontrolled exothermic chemical reactions caused by large masses of materials interacting with curing agents (peroxides, amines, etc.) and/or exposure to UV light.

11 Toxicological information**Acute toxicity:***LD/LC50 values that are relevant for classification:***88-12-0 1-vinyl-2-pyrrolidone**

Oral LD50 1470 mg/kg (rat)

Dermal LD50 560 mg/kg (rabbit)

Inhalative LC50/4 h 3.2 mg/l (rat)

*Primary irritant effect:**on the skin:*

No irritant effect.

on the eye:

Strong irritant with the danger of severe eye injury.

Sensitization:

Sensitization possible through skin contact.

Additional toxicological information:The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant**12 Ecological information****Ecotoxicological effects:**

Remark: Toxic for fish
General notes: Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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USA

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13 Disposal considerations**Product:***Recommendation:* Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**Uncleaned packagings:***Recommendation:* Disposal must be made according to official regulations.**14 Transport information****DOT regulations:***Hazard class:* -**Maritime transport IMDG:***IMDG Class:* -
Marine pollutant: No**Air transport ICAO-TI and IATA-DGR:***ICAO/IATA Class:* -***15 Regulations***TSCA (Toxic Substances Control Act):*

All ingredients are listed.

*Carcinogenicity categories**EPA (Environmental Protection Agency)*

None of the ingredients are listed.

IARC (International Agency for Research on Cancer)

88-12-0 1-vinyl-2-pyrrolidone: 3

140-11-4 benzyl acetate: 3

TLV (Threshold Limit Value established by ACGIH)

88-12-0 1-vinyl-2-pyrrolidone: A3

140-11-4 benzyl acetate: A4

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

*Hazard symbols:*Harmful
Dangerous for the environment*Hazard-determining components of labelling:*1-vinyl-2-pyrrolidone
2-Hydroxyethyl methacrylate*Risk phrases:*Irritating to respiratory system.
Limited evidence of a carcinogenic effect.
Risk of serious damage to eyes.
May cause sensitisation by skin contact.
Danger of serious damage to health by prolonged exposure.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*Safety phrases:*Do not breathe gas/fumes/vapour/spray.
Avoid contact with eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
Use appropriate container to avoid environmental contamination.
This material and its container must be disposed of as chemical waste.***16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:Dymax Corporation
Dr. Stephan Platzer
Laboratory Manager**Contact:****Creation Date:**

11/15/2007

* Data compared to the previous version altered.