

1 Identification of substance**Product details**

<i>Trade name:</i>	718-GEL
<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:

Non-Reactive Filler	25-50%
868-77-9 2-Hydroxyethyl methacrylate	15-25%
Urethane (Meth)Acrylate Oligomer	15-25%
Rheological Additive	1-5%
79-10-7 Acrylic acid	1-5%
5888-33-5 Isobornyl acrylate	1-5%
110-16-7 Maleic acid	1-5%
Photoinitiator	<1%

3 Hazards identification

Hazard description: Irritant

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 eyes, respiratory system and skin.
May cause sensitisation by skin contact.
Harmful 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 = 1
Fire = 1
Reactivity = 1

HMIS-ratings (scale 0 - 4) Health = 1
Fire = 1
Reactivity = 1

4 First aid measures

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. If symptoms persist, consult a doctor.

After swallowing: Seek medical treatment.

5 Fire fighting measures

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

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.

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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).
Ensure adequate ventilation.

7 Handling and storage

Handling:

Information for safe handling:

Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about protection against explosions and fires:

No special measures required.

Storage:

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.
Protect from exposure to the light.
Avoid loss of dissolved air, loss of inhibitor, and contamination with incompatible materials.

Maximum storage temperature:

< 38°C (100°F)

* 8 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7.

Components with limit values that require monitoring at the workplace:

79-10-7 Acrylic acid

REL 6 mg/m³, 2 ppm
Skin

TLV 5.9 mg/m³, 2 ppm
Skin

Additional information:

The lists that were valid during the creation were used as basis.

Personal protective equipment:

General protective and hygienic measures:

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 and skin.

Breathing equipment:

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.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Nitrile rubber, NBR

Penetration time of glove material

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.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

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: > 100°C (> 212°F)

Ignition temperature: 214°C (417°F)

Auto igniting: Product is not selfigniting.

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

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:**

Primary irritant effect:

on the skin:

Irritant to skin and mucous membranes.

on the eye:

Irritating effect.

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:

Harmful to fish

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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.

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— USA —

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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***Sara Section 313:*

Non-Reactive Filler

79-10-7 Acrylic acid

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)

79-10-7 Acrylic acid: 3

TLV (Threshold Limit Value established by ACGIH)

Non-Reactive Filler: A4

79-10-7 Acrylic acid: A4

Product related hazard informations:

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

Hazard symbols:

Irritant

Hazard-determining components of labelling:

2-Hydroxyethyl methacrylate

*Risk phrases:*Irritating to eyes, respiratory system and skin.
May cause sensitisation by skin contact.
Harmful 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 skin.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves.
This material and its container must be disposed of as chemical waste.
Avoid release to the environment. Refer to special instructions/safety data sheets.***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**Creation Date:**

11/07/2006

* Data compared to the previous version altered.