



SDS: FAST CAST 802 POLYOL

Rev. Date: 11/13/2015

Section 1. IDENTIFICATION

Product Name: FAST CAST 802 POLYOL
Product Identifier/Chemical Name: Polyurethane Polyol
Material Use: Component B of a Polyurethane System
Supplier/Manufacturer: Goldenwest Manufacturing Incorporated
2036 Nevada City Hwy, Box 573, GV, CA 95945
530 272-1133 Fax 530 272-1070

Emergency Phone: Chemtrec: 800-424-9300

Section 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Environmental, Hazards to the aquatic environment - Acute, 1
Environmental, Hazards to the aquatic environment - Chronic, 1
Health, Carcinogenicity, 2
Health, Specific target organ toxicity - Single exposure, 3
Health, Acute toxicity, 4
Oral Health, Acute toxicity, 5
Dermal Health, Acute toxicity, 5
Inhalation Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H351 - Suspected of causing cancer
H336 - May cause drowsiness or dizziness
H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H333 - May be harmful if inhaled
H319 - Causes serious eye irritation

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P501 - Dispose of contents/container to a licensed waste disposal services provider

Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry: Eyes; Ingestion; Inhalation; Skin;
Target Organs: Eyes; Skin; Respiratory system;



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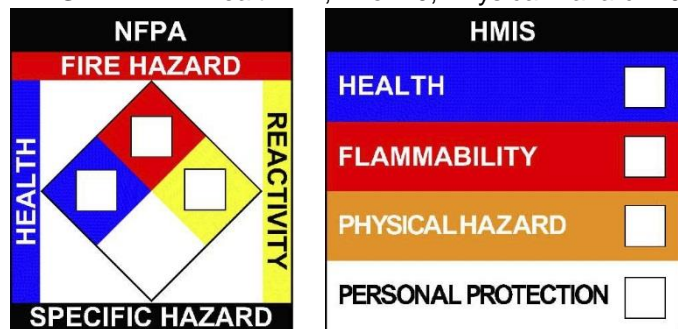
Inhalation: Heating, spraying, foaming or otherwise mechanically dispersing operations way generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Minimal respiratory tract irritation may occur with exposure to a large amount of material.

Skin Contact: Prolonged or repeated exposure can cause skin irritation or dermatitis in some individuals.

Eye Contact: May cause watering of the eye and irritation of the conjunctiva.

NFPA: Health = 1, Fire = 0, Reactivity = 0, Specific Hazard = None

HMIS III: Health = 1, Fire = 0, Physical Hazard = 0



Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

CAS #	%	Chemical Name
1318-02-1	.1-1%	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites)
25214-63-5	30-40%	1,2-Ethanediamine, polymer with methyloxirane
9049-71-2	1-5%	Poly[oxy(methyl-1,2-ethanediyl)], alpha.-hydro.-omega.-hydroxy-, ether with. Beta.-D-fructofuranosyl. alpha. -D-glucopyranoside
25791-96-2	1-5%	Poly[oxy(methyl-1,2-ethanediyl)], alpha.,. alpha. ', alpha."-1,2,3 propanetriyltris [. omega. -hydroxy-
91-20-30-	5%	Naphthalene

Section 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Skin Contact: Remove all contaminated clothing and shoes. Wash skin with large quantities of water and soap. Wash clothing before wearing again and clean shoes. If redness, itching or a burning sensation develops or persists after the area is washed, consult a physician.

Eye Contact: Flush with large amounts of water for 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. This material is an aspiration hazard. Never give anything by mouth to an unconscious person. Seek medical attention.



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Section 5. FIRE-FIGHTING MEASURES

Flash Point: 277°F

Flash Point Method: COC

Dry powder, foam, carbon dioxide. Use cold water spray to cool fire exposed containers to minimize risk of rupture. A solid stream of water directed into hot burning liquid could cause frothing. If possible, contain fire run off.

Section 6. ACCIDENTAL RELEASE MEASURES

Spill: Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear chemical goggles, rubber or plastic gloves and clothing as required to protect against contact. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

Clean up: With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. Ventilate area to remove the remaining vapors.

Section 7. HANDLING AND STORAGE

Handling Precautions: Do not smoke or use naked lights, open flames, space heaters or other ignition sources near pouring, frothing or spraying operations. If contamination with isocyanates is suspected, do not reseal containers. Special Emphasis for spray applications of mixed products containing isocyanates: Inspect the application area for potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors, persons entering or exiting the building as well as those inside could be exposed to poly-isocyanates due to wind conditions, open windows or air intakes. Do not begin application work until these potential problems have been corrected.

Storage Requirements: When stored between 60°-85° F in sealed containers, typical shelf life is 6 months or more from the date of manufacture. Open containers must be handled properly to prevent moisture pickup.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Uses requiring heating and/or spraying may require more aggressive engineering controls or PPE.

Personal Protective Equipment: Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face, supplied air, respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash



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and dry hands. Splash contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 30 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) (1318-02-1 [1-1%]): no data available

Poly[oxy(methyl-1,2-ethanediyl)], alpha,.. alpha. '., alpha."-1,2,3-propanetriyltris [. omega. -hydroxy- (25791-96-2) [1-5%]: no data available

Naphthalene (91-20-3) [0-.5%]

Components with workplace control parameters

TWA 10 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract Irritation Hematologic Effects Eye Damage Not classifiable as a human carcinogen Danger of cutaneous absorption

STEL 15 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract Irritation Hematologic Effects Eye Damage Not classifiable as a human carcinogen Danger of cutaneous absorption

TWA 10 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 50 mg/m³ 1910.1000

STEL 15 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 75 mg/m³ 1910.1000

TWA 10 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 150 mg/m³ Limits for Air Contaminants
The value in mg/m³ is approximate.

TWA 10 ppm USA. NIOSH Recommended Exposure Limits 50 mg/m³

ST 15 ppm USA. NIOSH Recommended Exposure Limits 75 mg/m³



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Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Non-Pigmented Liquid	Odor:	Mild
Physical State:	Liquid	Solubility:	No data available
Odor Threshold:	No data available	Freezing /Melting Point:	No data available
Spec. Grav. /Density:	N/A	Flash Point:	277° F
Viscosity:	No data available	Vapor Density:	> 1
Boiling Point:	> 500° F	Auto-Ignition Temp.:	No data available
Flammability:	Non Flammable	UFL/LFL:	No data available
Vapor Pressure:	No data available		
pH:	No data available		
Evap. Rate:	< 1		
Decomp. Temp.:	No data available		

Section 10. STABILITY AND REACTIVITY

Reactivity:	No specific data.
Chemical Stability:	Product is safe under normal circumstances.
Conditions to Avoid:	No specific data.
Materials to Avoid:	Oxidizing materials
Hazardous Decomposition:	Under normal storage conditions hazardous decomposition products should not be produced.
Hazardous Polymerization:	Will not occur.

Section 11. TOXICOLOGICAL INFORMATION

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) (1318-02-1) [.1-1%]

Information on toxicological effects

Acute toxicity:

Oral LD50

LD50 Oral - rat - > 10,000 mg/kg

Inhalation LC50 Dermal LD50

LD50 Dermal - rabbit - > 2,000 mg/kg Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - Human - No skin irritation

Serious eye damage/eye irritation: Eyes - rabbit - No eye irritation Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - Human - lymphocyte Cytogenetic Analysis

Genotoxicity in vivo - mouse - Intraperitoneal

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Zeolites crystalline aluminosilicates, composed of silica (SiO₂) and alumina (Al₂O₃), in various proportions plus metallic oxides. Pr)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available Teratogenicity: no data available



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Specific target organ toxicity - single exposure (Globally Harmonized System): Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: prolonged or repeated exposure can cause: Damage to the lungs. Cough, Difficulty in breathing, Gastrointestinal disturbance, prolonged or repeated exposure can cause: Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available Additional Information:

RTECS: ZG6800000

Poly[oxy(methyl-1,2-ethanediyl)], alpha.,. alpha. '., alpha."-1,2,3-propanetriyltris [. omega. -hydroxy- (25791-96-2) [1-5%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - > 69,632 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 21,760 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available Aspiration hazard: no data available

Additional Information:

RTECS: QR4325000

Naphthalene (91-20-3) [0-.5%]

Information on toxicological effects

Acute toxicity:

Oral LD50

LD50 Oral - rat - 490.0 mg/kg



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Inhalation LC50

LC50 Inhalation - rat - 1 h - > 340 mg/m³ Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):
Eye: Lacrimation.

Behavioral: Somnolence (general depressed activity).

Dermal LD50

LD50 Dermal - rabbit - 20,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

NTP: Reasonably anticipated to be a human carcinogen (Naphthalene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in: cataracts, optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms: hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.

Synergistic effects: no data available

Additional Information:

RTECS: QJ0525000

Section 12. ECOLOGICAL INFORMATION

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) (1318-02-1) [.1-1%]

Information on ecological effects

Toxicity:

Persistence and degradability: no data available

Bioaccumulative potential: no data available Mobility in soil: no data available

PBT and vPvB assessment: no data available Other adverse effects: no data available

Poly[oxy(methyl-1,2-ethanediyl)], alpha.,. alpha. ',. alpha."-1,2,3-propanetriyltris [. omega. -hydroxy-2] [1-5%] (25791-96-2)



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Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Naphthalene (91-20-3) [0-.5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 0.9 - 9.8 mg/l - 96.0 h.

LC50 - *Pimephales promelas* (fathead minnow) - 1 - 6.5 mg/l - 96.0 h

NOEC - other fish - 1.8 mg/l - 3.0 d

LOEC - other fish - 3.2 mg/l - 3.0 d

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 1.00 - 3.40 mg/l - 48 h. and other aquatic invertebrates

Toxicity to algae EC50 - No information available. - 33.00 mg/l - 24 h.

Persistence and degradability: Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable. no data available

Bioaccumulative potential: Bioaccumulation Fish - Bioconcentration factor (BCF): 427 - 1,158

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. DISPOSAL CONSIDERATION

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

Section 14. TRANSPORT INFORMATION

Not DOT/RCRA Regulated

IATA/IMDG/ICAO Non regulated

Section 15. REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites) (1318-02-1) [.1-1%] IARC

1,2-Ethanediamine, polymer with methyloxirane (25214-63-5) [30-40%] TSCA



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Poly[oxy(methyl-1,2-ethanediyl)], alpha. -hydro-. omega. -hydroxy-, ether with. beta. -D-fructofuranosyl. alpha. -D-glucopyranoside (9049-71-2) [1-5%] TSCA

Poly[oxy(methyl-1,2-ethanediyl)], alpha., alpha. ', alpha."-1,2,3-propanetriyltris [. omega. -hydroxy- (25791-96-2) [1-5%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity
IARC = IARC Carcinogen Risks
TSCA = Toxic Substances Control Act

Section 16. OTHER INFORMATION

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).