

**Section 1. IDENTIFICATION**

**Product Name:** FLEXCAST SA50N 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, Grass Valley, CA 95945  
Phone: 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):**

Health, Reproductive toxicity, 1 B  
Environmental, Hazards to the aquatic environment - Acute, 1  
Environmental, Hazards to the aquatic environment - Chronic, 1  
Health, Specific target organ toxicity - Single exposure, 3  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 5 Dermal  
Health, Acute toxicity, 5 Inhalation

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:****GHS Hazard Statements:**

H360 - May damage fertility or the unborn child H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H336 - May cause drowsiness or dizziness  
H302 - Harmful if swallowed  
H313 - May be harmful in contact with skin H333 - May be harmful if inhaled

**GHS Precautionary Statements:**

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash exposed skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment.  
P281 - Use personal protective equipment as required.  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P308+313 - IF exposed or concerned: Get medical advice/attention.  
P330 - Rinse mouth.



P391 - Collect spillage.

P405 - Store locked up.

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;

Inhalation: Heating, spraying, foaming or otherwise mechanically dispersing operations may 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 = 2, Fire = 0, Reactivity = 0, Specific Hazard = None**HMIS III:** Health = 2, Fire = 0, Physical Hazard = 0**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS****INGREDIENTS:**

Cas#	%	Chemical Name
0	70-80%	Non-Hazardous
111-46-6	25-30%	Diethylene glycol
1318-02-1	.1-1%	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, synthetic zeolites)
117-81-7	5-10%	Bis(2-ethylhexyl)phthalate

**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.

## Section 5. FIRE-FIGHTING MEASURES

**Flash Point:** 200°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 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.

#### **Diethylene glycol (111-46-6) [25-30%]**

##### **Components with workplace control parameters**

**TWA 10 mg/m<sup>3</sup> USA. Workplace Environmental Exposure Levels (WEEL)**

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

#### **Bis(2-ethylhexyl)phthalate (117-81-7) [5-10%]**

##### **Components with workplace control parameters**

**TWA 5 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV)**

##### **Lower Respiratory Tract irritation**

**Confirmed animal carcinogen with unknown relevance to humans**

**TWA 5 mg/m<sup>3</sup> USA. NIOSH Recommended Exposure Limits**

##### **Potential Occupational Carcinogen See Appendix A**

**ST 10 mg/m<sup>3</sup> USA. NIOSH Recommended Exposure Limits**

**Potential Occupational Carcinogen See Appendix A****TWA 5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants****TWA 5 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000****STEL 10 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000****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:	200° F
Viscosity:	No data available	Vapor Density:	> 1
Boiling Point:	> 285° C	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:	No data available		
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**

Diethylene glycol (111-46-6) [25-30%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 12,565 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - 11,890 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

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

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.



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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: ID5950000

Confusion., Dizziness, Kidney injury may occur., Unconsciousness, Convulsions, Pulmonary edema. Effects may be delayed., Nausea, Headache, Vomiting

Liver - Irregularities - Based on Human Evidence

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 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 (SiO<sub>2</sub>) and alumina (Al<sub>2</sub>O<sub>3</sub>), 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

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

Bis(2-ethylhexyl)phthalate (117-81-7) [5-10%]

Information on toxicological effects

Acute toxicity:  
LD50 Oral - rat - 30,000 mg/kg  
Inhalation: no data available

LD50 Dermal - rabbit - 25,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

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.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)

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: May cause congenital malformation in the fetus. Presumed human reproductive toxicant  
May cause reproductive disorders.

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: TI0350000

Lung irritation, Gastrointestinal disturbance

Kidney -

## Section 12. ECOLOGICAL INFORMATION

Diethylene glycol (111-46-6) [25-30%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h.

LC50 - Carassius auratus (goldfish) - 5,000 mg/l - 24 h



Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - > 10,000 mg/l - 24 h. other aquatic invertebrates

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

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

Bis(2-ethylhexyl)phthalate (117-81-7) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Pimephales promelas* (fathead minnow) - > 0.67 mg/l - 96 h.

LC50 - *Oncorhynchus mykiss* (rainbow trout) - > 0.32 mg/l - 96 h

LC50 - *Cyprinodon variegatus* (sheepshead minnow) - > 0.17 mg/l - 96 h

LC50 - *Lepomis macrochirus* (Bluegill) - > 0.20 mg/l - 96 h

NOEC - other fish - > 0.3 mg/l - 96 h

Toxicity to daphnia and Immobilization EC50 - *Daphnia magna* (Water flea) - > 0.16 mg/l - 48 h. other aquatic invertebrates

Persistence and degradability: no data available Biodegradability Result: - Readily biodegradable. (OECD Test Guideline 301)

Bioaccumulative potential: Bioaccumulation *Oncorhynchus mykiss* (rainbow trout) - 100 d - 0.014 mg/l

Bioconcentration factor (BCF): 113

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

no data available

### 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

Diethylene glycol (111-46-6) [25-30%] HAP, PA, TSCA

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

RQ(100LBS), Bis(2-ethylhexyl)phthalate (117-81-7) [5-10%] CERCLA, EPCRAWPC, HAP, IARC, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory CODE Descriptions

RQ =	Reportable Quantity
IARC =	IARC Carcinogen Risks
HAP =	Hazardous Air Pollutants
PA =	PA Right-To-Know List of Hazardous Substances TSCA = Toxic Substances Control Act
CERCLA =	Superfund clean up substance
EPCRAWPC =	EPCRA Water Priority Chemicals
MASS =	MA Massachusetts Hazardous Substances List
NJHS =	NJ Right-to-Know Hazardous Substances
NRC =	Nationally Recognized Carcinogens
OSHAWAC =	OSHA Workplace Air Contaminants
PRIPOL =	Clean Water Act Priority Pollutants
PROP65 =	CA Prop 65
SARA313 =	SARA 313 Title III Toxic Chemicals
TOXICRCRA =	RCRA Toxic Hazardous Wastes (U-List)
TXAIR =	TX Air Contaminants with Health Effects Screening Level TXHWL = TX Hazardous Waste List

**Section 16. OTHER INFORMATION**

## Disclaimer:

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