

Accella Polyurethane Systems

Safety Data Sheet

1. Identification of Substance:

Product Name: H3609 CHLORINE RESISTANT BINDER

Supplier Identification:

Accella Polyurethane Systems

Telephone:

(909) 941-4999

Address:

8530 Milliken Ave
Rancho Cucamonga, CA 91730

24-Hr. Emergency Phone Number:

CHEMTREC (800) 424-9300

Product Use: Polyurethane isocyanate component

2. Hazards Identification:

GHS Ratings:

Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Aquatic toxicity	A3	Acute toxicity <= 10.0 but < 100 mg/l

GHS Hazards

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H402	Harmful to aquatic life

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection
P310	Immediately call a POISON CENTER in case of overexposure.
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents/container in accordance with Section 13

Signal Word: Danger



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3. Composition/Data on Components:

Chemical Name	CAS number	Weight Concentration %
Castor oil, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane	68955-90-8	70.00% - 80.00%
Isophorone diisocyanate	4098-71-9	10.00% - 20.00%

4. First Aid Measures:

After Inhalation: May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity.

Remove from exposure area to fresh air. Administer oxygen or artificial respiration as needed. Obtain medical attention.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.

After Skin Contact: Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation or rash develops.

After Swallowing: Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

Notes to Physician: Treat symptomatically. Following severe exposure the patient should be kept under medical observation for a least 48 hours.

5. Fire Fighting Measures:

Flash Point: 121 C (250 F)

LEL:

UEL:

Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical

Information about Protection against Explosions and Fires: Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, and traces of HCN.

Protective Equipment: Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn by firefighters.

6. Accidental Release Measures:

Person-Related Safety Precautions: Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Place waste in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Collect for proper disposal according to local, state, and federal regulations.

7. Handling and Storage:

Information for Safe Handling: Do not breathe fumes, vapors or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.

Storage Requirements: Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Castor oil, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane 68955-90-8	Not Established	Not Established	Not Established
Isophorone diisocyanate 4098-71-9	0.005 ppm TWA 0.02 ppm STEL	0.005 ppm TWA	NIOSH: 0.005 ppm TWA; 0.045 mg/m3 TWA 0.02 ppm STEL; 0.180 mg/m3 STEL

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment:

Respiratory Protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is

exceeded. Do not enter storage area unless adequately ventilated.

Hand Protection: Protective butyl rubber or nitrile rubber gloves.

Eye Protection: Chemical safety goggles.

Body Protection: Protective work clothing. Launder separately.

9. Physical and Chemical Properties:

Appearance: Clear yellow liquid	Odor: Musty
Vapor Pressure: N/A	Odor threshold: N/A
Vapor Density: N/A	pH: N/A
Specific Gravity: 1.02	Melting point: N/A
Freezing point: N/A	Solubility: N/A
Boiling range: 280°C	Flash point: 250 F, 121 C
Evaporation rate: N/A	Flammability: N/A
Explosive Limits: N/A	Partition coefficient (n-octanol/water): N/A
Autoignition temperature: 430°C	Decomposition temperature: N/A

10. Stability and Reactivity:

Incompatible Materials: Avoid contact with water, amines, strong bases, and alcohols.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons, isocyanates, and traces of HCN.

11. Toxicological Information:

Mixture Toxicity

Inhalation Toxicity LC50: 1mg/L

Component Toxicity

4098-71-9 Isophorone diisocyanate
Oral LD50: 1,097 mg/kg (Rat) Dermal LD50: 1,060 - (Rabbit) Inhalation LC50: 0 mg/L (Rat)

Toxicity Values Listed if Known

Acute Health Effects:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

Chronic Health Effects: Isocyanates may cause skin and respiratory sensitivity in some individuals.

Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure.

Conditions Aggravated by Exposure: Asthma, respiratory disorders, skin allergies, eczema

Routes of Entry : Inhalation, ingestion, skin contact, eye contact

Target Organs: Respiratory track, eyes, skin

Chemicals with Known or Possible Carcinogenic Effects:

CAS Number

Description

% Weight

Carcinogen Rating

12. Ecological Information:

General Information:Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

Isophorone diisocyanate 72 Hr EC50 Desmodemus subspicatus: 118.7 mg/L

13. Disposal Considerations:

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

14. Transport Information:

DOT Regulated Components:

Isophorone Diisocyanate

Reportable Quantity: No minimum threshold

Material ships as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Isophorone Diisocyanate	2290	III	6.1
IMDG	Isophorone Diisocyanate	2290	III	6.1
ICAO/IATA	Isophorone Diisocyanate	2290	III	6.1

15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard.

California Proposition 65

(Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Massachusetts Right To Know List:

Isophorone diisocyanate 4098-71-9 10 to 20 %

New Jersey Right To Know List:

Isophorone diisocyanate 4098-71-9 10 to 20 %

Pennsylvania Right To Know List:

Isophorone diisocyanate 4098-71-9 10 to 20 %

SARA 302 Extremely Hazardous Substances:

Isophorone diisocyanate 4098-71-9 10 to 20 %

Chemicals subject to SARA 313 Reporting:

Isophorone diisocyanate 4098-71-9 10 to 20 % Emissions

All Substances Listed on TSCA Inventory Unless Noted:

- None

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Accella Polyurethane Systems. The data on these sheets relates only to the specific material designated herein. Accella Polyurethane Systems assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

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Reviewer Revision 1

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