

Material Safety Data Sheet

REN®CAST 6426-1

1. Product and company identification

Material uses : Polyurethane Resin
MSDS # : 00066576
Validation date : 7/18/2011.
Print date : 7/18/2011.

Supplier/Manufacturer : Huntsman Advanced Materials Americas LLC
P.O. Box 4980
The Woodlands, TX 77387

Non-Emergency phone: (800) 257-5547

E-Mail: MSDS@huntsman.com

In case of emergency : Chemtrec: (800) 424-9300 or (703) 527-3887

2. Hazards identification

Physical state : Liquid.
Color : Brown.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview : WARNING!
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Do not breathe vapor or mist. Do not get on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

See toxicological information (Section 11)

GENERAL INFORMATION : Read the entire MSDS for a more thorough evaluation of the hazards.

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
diphenylmethanediisocyanate, isomers and homologues	9016-87-9	30 - 60
Diphenylmethane-4,4'-Diisocyanate	101-68-8	13 - 30

4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

4 . First aid measures

- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Notes to physician** : No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

5 . Fire-fighting measures

- Flash point** : Not available.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid

7. Handling and storage

breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

- : Storage temperature: 24 to 41°C (75.2 to 105.8°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits
diphenylmethane-4,4'-di-isocyanate	ACGIH TLV (United States, 2/2010). TWA: 0.005 ppm 8 hour(s). OSHA PEL (United States, 11/2006). CEIL: 0.02 ppm CEIL: 0.2 mg/m ³

Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

- : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

- : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin

- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

General information

Appearance

Physical state : Liquid.
Color : Brown.
Odor : Not available.

Important health, safety and environmental information

pH : Not available.
Boiling/condensation point : Not available.
Melting/freezing point : Not available.
Flash point : Not available.
Flammable limits : Not available.
Auto-ignition temperature : Not available.

Vapor pressure : Not available.
Specific gravity : 1.01
Water solubility : Reacts with water
Partition coefficient: n-octanol/water (log Kow) : Not available.
Density : Not available.
Vapor density : Not available.
Evaporation rate (butyl acetate = 1) : Not available.
VOC : Not available.

10 . Stability and reactivity

Chemical stability : The product is stable.
 Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Potential acute health effects

Inhalation : May cause sensitization by inhalation.
Ingestion : No known significant effects or critical hazards.
Skin : May cause sensitization by skin contact.
Eyes : No known significant effects or critical hazards.

Product/ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomers and homologues	LD50 Oral	Rat	>2000 mg/kg	-
Diphenylmethane-4,4'-Diisocyanate	LD50 Dermal	Rabbit - Male, Female	>9400 mg/kg	-
	LD50 Intraperitoneal	Rabbit - Male	100 mg/kg	-
	LD50 Oral	Rat - Male	>10000 mg/kg	-

11 . Toxicological information

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomers and homologues	Chronic NOEC Inhalation Dusts and mists	Rat - Male, Female	0.2 mg/m3	2 years; 5 days per week
	Sub-acute LOEC Inhalation Dusts and mists	Rat - Male, Female	1.1 mg/m3	14 days; 6 hours per day
Diphenylmethane-4,4'-Diisocyanate	Chronic NOEC Inhalation Dusts and mists	Rat - Male, Female	0.2 mg/m3	2 years; 5 days per week

Sensitizer

Product/ingredient name	Route of exposure	Species	Result
diphenylmethanediisocyanate, isomers and homologues	skin	Guinea pig	Sensitizing
Diphenylmethane-4,4'-Diisocyanate	Respiratory Respiratory	Human Guinea pig	Sensitizing Sensitizing

Product/ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomers and homologues	Negative - Inhalation - NOAEL	Rat - Male, Female	1 mg/m3	2 years; 5 days per week
	Negative - Inhalation - NOAEL	Rat - Female	0.7 mg/m3	2 years; 5 days per week
Diphenylmethane-4,4'-Diisocyanate	Positive - Inhalation - NOAEL	Rat - Male, Female	1 mg/m3	2 years; 5 days per week

Carcinogenic class

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
diphenylmethanediisocyanate, isomers and homologues	-	3	-	-	-	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result
diphenylmethanediisocyanate, isomers and homologues	OECD 474	Experiment: In vivo Subject: Mammalian- Animal	Negative
	-	Experiment: In vivo Subject: Mammalian- Human	Equivocal
Diphenylmethane-4,4'-Diisocyanate	EU	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian- Animal	Negative

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomers and homologues	Negative - Inhalation	Rat - Male, Female	4 mg/m3 NOAEL	20 days
Diphenylmethane-4,4'-Diisocyanate	Negative - Inhalation	Rat - Male, Female	12 mg/m3 NOAEL	20 days

11 . Toxicological information

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
diphenylmethanediisocyanate, isomers and homologues	-	-	-	Rat - Male, Female	Inhalation: - NOAEL	

Potential chronic health effects

Chronic effects	:	Contains material that can cause target organ damage. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.				
Target organs	:	Contains material which causes damage to the following organs: upper respiratory tract.				
Carcinogenicity	:	No known significant effects or critical hazards.				
Mutagenicity	:	No known significant effects or critical hazards.				
Teratogenicity	:	No known significant effects or critical hazards.				
Fertility effects	:	No known significant effects or critical hazards.				
Developmental effects	:	No known significant effects or critical hazards.				

Medical conditions aggravated by over-exposure

Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
diphenylmethanediisocyanate, isomers and homologues	-	Acute EC50 >1000 mg/L	Daphnia - Daphnia magna Straus 1820	24 hours
	-	Acute LC0 >1000 mg/L	Fish - Zebra fish (Brachydanio rerio)	96 hours
4,4'-methylenediphenyl diisocyanate	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50 >1000 mg/L Fresh water	Daphnia	24 hours Static
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 >100 mg/L Fresh water	Bacteria	3 hours Static
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >1000 mg/L	Fish	96 hours Static
	OECD 211 <i>Daphnia Magna</i> Reproduction Test	Chronic NOEC >10 mg/L Fresh water	Daphnia	21 days Semi-static

Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
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12 . Ecological information

4,4'-methylenediphenyl diisocyanate	OECD 302C Inherent Biodegradability: Modified MITI Test (II)	0 % - Not readily - 28 days	30 mg/L	-
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Other ecological information

Not Determined
Not Determined

Product/ingredient name

diphenylmethanediisocyanate,
isomers and homologues

Aquatic half-life

Fresh water 0.8 days

Photolysis

-

Biodegradability

-

4,4'-methylenediphenyl diisocyanate -

-

Not readily

Bioaccumulative potential

Product/ingredient name

diphenylmethanediisocyanate,
isomers and homologues

LogP_{ow}

-

BCF

200

Potential

high

4,4'-methylenediphenyl diisocyanate 4.51

200

high

Other adverse effects : No known significant effects or critical hazards.

PBT : Not applicable.

Other information

13 . Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14 . Transport information

Proper shipping name

DOT : Not regulated.

TDG : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

14 . Transport information

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-		-
TDG Classification	Not regulated.	-	-		-
IMDG Class	Not regulated.	-	-		-
IATA-DGR Class	Not regulated.	-	-		-

PG* : Packing group

15 . Regulatory information

U.S. Federal regulations

HCS Classification : Sensitizing material
Target organ effects

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.

TSCA 5(a)2 final significant new use rule (SNUR) : None.

TSCA 5(e) substance consent order : None.

TSCA 12(b) one-time export notification: : None.

TSCA 12(b) annual export notification : None.

SARA 302/304/311/312 extremely hazardous substances : **SARA 302/304/311/312 extremely hazardous substances**: No Ingredient Listed

SARA 311/312 hazard identification : **SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: diphenylmethanediisocyanate, isomers and homologues: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : **Product name** **CAS number** **Concentration**
No Ingredients Listed.

Clean Air Act - Ozone Depleting Substances (ODS) : EPCRA Section 313 (40 CFR 372) CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): 4,4-Methylene diphenyl diisocyanate (CAS 101-68-8) has a 5,000 lb. RQ (reportable quantity). Any spill or release above the RQ must be reported to the National Response Center (800-424-8802).

This product does not contain nor is it manufactured with ozone depleting substances.

SARA 313 Form R - Reporting requirements	Product name	CAS number	Concentration
:	diphenylmethanediisocyanate, isomers and homologues	9016-87-9	30 - 60
:	Diphenylmethane-4,4'-Diisocyanate	101-68-8	13 - 30

CERCLA: Hazardous substances.

15 . Regulatory information

Components	Concentration %	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity (Lbs)	Product Reportable Quantity (Lbs)
diphenylmethanediisocyanate, isomers and homologues	35.64	Listed		
diphenylmethane-4,4'-di-isocyanate	29.16	Listed		

STATE REGULATIONS:

PENNSYLVANIA - RTK: None of the components are listed.

California Prop 65 : This product contains no listed 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.

Canada

WHMIS (Canada) : Class D-1B: Material causing immediate and serious toxic effects (Toxic).
 Class D-2A: Material causing other toxic effects (Very toxic).
 Class D-2B: Material causing other toxic effects (Toxic).

CEPA DSL : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International lists : **Australia inventory (AICS):** All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

16 . Other information

Label requirements : MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	1
Physical hazards	1
Personal protection	

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



16 . Other information

Date of printing : 7/18/2011.

Date of issue : 7/18/2011.

Date of previous issue : 7/15/2011.

Version : 2

▣ Indicates information that has changed from previously issued version.

Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.

P.O. Box 4980
The Woodlands, TX 77387-4980

8 am to 5 pm Phone: (800) 257-5547
24-Hour Emergency Phone: (800) 328-8501
International Emergency Phone: (409) 727-0831
Asia Pacific Emergency Phone: (65) 6336-6011

Effective Date: 12/23/10

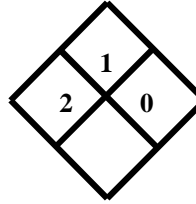
Material Safety Data Sheet

MSDS No: 6121

1. PRODUCT IDENTIFICATION

Trade Name: Ren 6426-1

Chemical Family: Polyol



NFPA RATING

Health:	2
Flammability:	1
Reactivity:	0
Personal Protection:	

HMIS RATING

Synonyms:
RP 6426-1 Hardener

Intended Use or Product Type: Fast polyurethane casting system hardener

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	111-76-2	Ethanol, 2-butoxy- Common Name: Ethylene glycol monobutyl ether	25 ppm	NE	50 ppm	NE	Table Z1A TWA 25 ppm	NR	NR	NR
*	12736-96-8	SODIUM POTASSIUM ALUMINIUM SILICATE OF VARIABLE COMPOSITION Concentration 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	1318-59-8	Chlorite-group minerals Common Name: chlorite	NE	NE	NE	NE	NE	NR	NR	NR
*	14807-96-6	Talc Common Name: Talc Concentration 1.00 - 5.00 % by wt	2 mg/m3	NE	NE	NE	NE	NR	NR	NR
*	16389-88-1	Dolomite (CaMg(CO3)2) Common Name: calcium magnesium carbonate	NE	NE	NE	NE	NE	NR	NR	NR
*	25322-68-3	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- Common Name: Polyethylene glycol Concentration 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR



Effective Date: 12/23/10

*	546-93-0 Common Name:	Carbonic acid, magnesium salt (1:1) Magnesium carbonate	10 mg/m3	NE	5 mg/m3	NE	NE	NR	NR	NR
*	6846-50-0 Common Name: Concentration	Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester Trimethyl pentanediol diisobutyrate 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	68611-44-9 Common Name: Concentration	Silane, dichlorodimethyl-, reaction products with silica Amorphous hydrophobic silicon dioxide 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	8001-79-4 Common Name: Concentration	Castor Oil Castor oil 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	25723-16-4 Common Name: Concentration	Poly[Oxy(Methyl-1,2-Ethanediy)], alpha-Hydro-omega-Hydroxy-, Ether with 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol Trimethylol propane based polyol 5.00 - 10.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	26898-17-9 Common Name: Concentration	Benzene, Methylbis(Phenylmethyl)- Dibenzyltoluene 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	68909-26-2 Common Name: Concentration	Poly(oxy(methyl-1,2-ethanediy)), alpha-hydro-omega-hydroxy-, ether with bis(((2-hydroxyethyl)amino)methyl)phenol (3:1) Aromatic amino polyol 30.00 - 50.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential	Alkene	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential	Polyalkyl Aromatic	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Polyether Modified Methylaklypolysiloxane 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
	Confidential Concentration	Salt of Long Chain Polyamine and High Molecular Weight Acid Ester 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction.

Primary Route(s) of Entry: Dermal; heated product may produce inhalable vapors.

Effective Date: 12/23/10

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

Inhalation: Remove to fresh air. Seek immediate medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

Overexposure Effects: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction.

Medical Conditions Aggravated by Exposure: Skin, eye and pulmonary conditions.

Additional Information: Referral to a physician is recommended if there is any question about the seriousness of any injury.

5. FIRE FIGHTING MEASURES

Flash Point:	> 93°C (> 199 °F)
Flash Point Method Used:	Estimated
Flammable Limits in Air (Lower - % by volume):	Not established
Flammable Limits in Air (Upper - % by volume):	Not established

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove spillage by absorbing in absorbent material.

7. HANDLING AND STORAGE

Signal Word: Warning!

Precautions: Causes eye, skin, and respiratory irritations. May cause allergic skin reaction. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Other Handling Information: Nuisance dust may be generated when sanding or sawing cured material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Effective Date: 12/23/10

Skin Protection: Wear impermeable gloves.

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Opaque, off-white
Odor:	Nil
Physical State:	Liquid
Solubility in Water:	Slight
Vapor Pressure:	Not Determined
Specific Gravity:	1.01 (water = 1)
Boiling Point:	Not Determined
Melting Point:	Not Determined
Evaporation Rate:	Not Determined
Density:	Not Determined
Vapor Density:	Not Determined
VOC:	Negligible
pH:	Not Evaluated
Coefficient of water/oil:	Not Evaluated

10. STABILITY AND REACTIVITY

Conditions to Avoid: Excessive heat for prolonged periods of time.

Stability: Stable.

Incompatibility: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Inhalation Exposure Effects: Respiratory irritant.

Sensitization: Possible in susceptible individuals.

Skin Irritation: Irritant.

Eye Irritation: Irritant.

12. ECOLOGICAL INFORMATION

Effective Date: 12/23/10

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT: Non-Bulk	
Proper Shipping Name:	Not Regulated
IATA: Non-Bulk	
Proper Shipping Name:	Not Regulated
IMDG: Non-Bulk	
Proper Shipping Name:	Not Regulated
TDG: Non-Bulk	
Proper Shipping Name:	Not Regulated

Motor Freight Classification Resin compounds, N.O.I.

15. REGULATORY INFORMATION**US Federal Regulations:**

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: All chemical components of this product are in compliance with TSCA inventory requirements.

TSCA Section 12(b) - Export Notification: This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

International Regulations:

Australian Inventory Status: This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

Canadian Inventory Status: This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

Canadian WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D2B

Effective Date: 12/23/10

European Inventory Status (EINECS): This product contains one or more chemicals currently not on the European Inventory of Existing Commercial Chemical Substances (EINECS) or Pre-market notified.

Japanese Inventory Status: This product contains one or more chemicals currently not on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with bis(((2-hydroxyethyl)amino)methyl)phenol (3:1)

Common Name: Aromatic amino polyol

CAS Number: 68909-26-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1-(1-Methylethyl)-1,3-Propanediyl Ester

Common Name: Trimethyl pentanediol diisobutyrate

CAS Number: 6846-50-0

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Benzene, Methylbis(Phenylmethyl)-

Common Name: Dibenzyltoluene

CAS Number: 26898-17-9

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly[Oxy(Methyl-1,2-Ethanediyl)], alpha-Hydro-omega-Hydroxy-, Ether with 2-Ethyl-2-(Hydroxymethyl)-1,3-Propanediol

Common Name: Trimethylol propane based polyol

CAS Number: 25723-16-4

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-

Common Name: Polyethylene glycol

CAS Number: 25322-68-3

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Talc

Common Name: Talc

CAS Number: 14807-96-6

Comment: Hazardous Substance

Chemical Name: SODIUM POTASSIUM ALUMINIUM SILICATE OF VARIABLE COMPOSITION

CAS Number: 12736-96-8

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Castor Oil

Common Name: Castor oil

CAS Number: 8001-79-4

Comment: Not on Pennsylvania Hazardous Substance List

Effective Date: 12/23/10

16. OTHER INFORMATION

MSDS No: 6121
Reason Issued: 12/10 update
Title: EHS Chemist

Other Information: DLW (D10020030) [D24]

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