

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Form Mixture
Trade Name CLEAR PRE-FORM
Product Code CP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Industrial. For professional use only.

1.2.2 Uses Advised Against

No additional information available

1.3 Details of the supplier of the safety data sheet

Manufacturer

NOX-CRETE MANUFACTURING INC
1444 SOUTH 20TH STREET
OMAHA, NE 68108
Tel: 402-341-2080
Fax: 402-341-9752
E-Mail: corporate@nox-crete.com
Web Site: www.nox-crete.com

1.4 Emergency telephone number

Emergency Number

Chemtrec (800) 424-9300
Chemtrec Outside of U.S. 703-527-3887

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulations 29CFR 1910.1200 , (EC) No. 1272/2008(CLP)(GHS)

Flam Liq. 2	H225
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Skin Sens 1	H317
Eye Irrit. 2	H319
Acute Tox 3	H331
Resp Sens 1	H334
STOT SE3	H335
Car 2	H351

Full text of H phrases see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

Hazard pictograms

GHS Physical Hazard Pictogram	GHS Health Hazard Pictogram	GHS Environmental Hazard Pictogram
		Not Applicable
GHS02 Flammable	GHS07 GHS08 GHS06	

Signal word

Hazard statements

Danger

H225 - Highly flammable liquid and vapor

H304 – May be fatal if swallowed and enters airway

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351- Suspected of causing cancer

Precautionary statements

P210 - Keep away from heat/sparks/open flames/hot surfaces-No smoking

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - Wear respiratory protection

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 - IF ON SKIN: Wash with soap and water

2.3 Other hazards**HMIS - ratings (scale 0-4) 0 low- 4 high**

Health	3
Flammability	3
Reactivity	1
Personal Protection	X

Full text of R, H and EUH phrases: see section 16

Section 3. Composition / information on ingredients**3.1 Substances**

Not applicable

3.2 Mixture

Name	Product identifier	%
Glycol Ether Ester	108-65-6	Trade Secret
Aromatic Solvent	64742-95-6	Trade Secret
Methyl Ethyl Ketone	78-93-3	< 9.1
Polyurethane Reacted Polymer	Mixture	Trade Secret

Toluene Diisocyanate (Mixed Isomers)	26471-62-5	< 1.3
Toluene	108-88-3	< 4.7
Xylene	1330-20-7	< 2.7
Ethylbenzene	100-41-4	< 0.9
Ester	141-78-6	Trade Secret
Naptha (petroleum), hydrotreated light	64742-49-0	Trade Secret

Pursuant to 29CFR 1910.1200(i) the specific chemical identity (and / or) concentration is being withheld as Trade Secret, while all health and safety properties and effects are included in the SDS.

Section 4. First aid measures

4.1 Description of first aid measures

First-aid measures general

Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation

If the individual experiences nausea, dizziness, has difficulty In breathing seek a healthcare professional immediately. In all cases of doubt, or when symptoms persist, seek medical advice. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Center or doctor/physician.

First-aid measures after skin contact

If skin irritation persists, seek medical attention. Remove or take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off immediately with soap and plenty of water.

First-aid measure after eye contact

When contact lenses are worn, remove if possible. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes while holding eyelids apart. Get medical attention immediately.

First-aid measures after ingestion

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, acute and delayed

Symptoms/injuries after inhalation

May cause irritation to the respiratory tract. Overexposure to vapors may result in headache, nausea, drowsiness or dizziness.

Symptoms/injuries after skin contact

May cause skin irritation or burning sensation

Symptoms/injuries after eye contact

May cause eye irritation or injury

Symptoms/injuries after ingestion

May cause severe irritation or burns to the mucous membrane of the mouth, throat, esophagus and stomach

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry chemical, foam, carbon dioxide

Unsuitable extinguishing media

If water is used it should be in very large quantities. The reaction between hot isocyanate and water may be vigorous.

5.2 Special hazards arising from the substance or mixture

Reactivity

Thermal decomposition products may cause a health hazard.

5.3 Advice for firefighters

Firefighting instructions	Flammable Liquid! This material releases vapors when heated above ambient temperatures. Vapors can cause a flash fire.
Protective equipment for firefighters	Firefighters should always wear self-contained breathing apparatus (SCBA) and full protective gear when fighting any chemical fire.
Other information	On heating or burning harmful gasses/vapors may be released. This product may cause the floor to become slippery.

Section 6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

General measures Cleanup should only be performed by trained personnel. People dealing with major spills should wear full protective clothing including respirator protection. Extremely Flammable. Eliminate any ignition sources. Take proper precautions to ensure your own health and safety before attempting spill control or cleanup.

6.11 Protective Equipment

Equip cleanup crew with proper protective equipment.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

Notify authorities if liquid enters sewers or public waters.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Contain and absorb large spills onto an inert, non-flammable absorbent carrier (such as earth or sand). Shovel into open top drum for further decontamination, if necessary. Wash the spill area clean with liquid decontamination solution. Neutralize small spills with liquid decontamination solution. Remove and properly dispose of residues.

PREPERATION OF DECONTAMINATION SOLUTION -Prepare a decontamination solution of (0.2-0.5 % liquid detergent and 3.0-8.0 % concentrated ammonium hydroxide in water) 5.0-10.0 % sodium carbonate may be substituted for the ammonium hydroxide. Follow the precautions on the supplier's Safety Data Sheets when preparing and using the solution.

USE OF DECONTAMINATION SOLUTION - Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten drum bungs. Mixing with wet earth is also effective, but slower.

Section 7. Handling and storage**7.1 Precautions for safe handling****Protective measures**

Wash hands and other exposed areas with soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in work areas to prevent formation of vapor. When not in use keep containers tightly closed. Avoid breathing vapor or mist.

Hygiene measures

Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Store in accordance with local regulations. Store in original container in a cool well ventilated place away from heat, sparks and open flame.. Keep containers tightly closed until ready for use.

Incompatible materials

Water, alcohol, ammonia, amines, alkalies. Some reactions can be violent.

Storage temperature

Store in a cool dry environment away from sources of ignition.

Section 8. Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

Ingredient name	Occupational exposure limits ACGIH TLV (United States)
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Glycol Ether Ester	TWA: 50 ppm 8 hours
Aromatic Solvent	TWA: 100 mg/m3 as mist
Ketone	TWA: 200 ppm 8 hours
Polyurethane Reacted Polymer	Mixture
Toluene Diisocyanate (Mixed Isomers)	TWA: .005 ppm 8 hours
Toluene	TWA: 20 ppm 8 hours
Xylene	TWA: 100 ppm 8 hours
Ethylbenzene	TWA: 100 ppm 8 hours
Ester	TWA: 400 ppm 8 hours
Naptha (petroleum), hydrotreated light	TWA: 247 ppm 8 hours

8.2 Exposure controls

Appropriate engineering controls

Use with adequate ventilation to keep product vapor concentrations below specified TLV

Eye and face protection

Chemical goggles and/or face shields are required to prevent potential eye contact, irritation or injury.

Skin protection

Wear chemical resistant gloves and appropriate protective clothing and boots as required to prevent skin contact. Wash exposed skin frequently with soap and water. Soiled clothing should be laundered before reuse.

Respiratory protection

Avoid breathing the product mist or vapors. The use of a NIOSH approved positive air supplied respirator is recommended whenever the airborne concentrations exceed the specified TLV or there is a high concentration of product in the air such as created by spraying the product. Air purifying (cartridge type) respirators are not approved for protection against diisocyanates.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odor	Strong aromatic
Odor Threshold	No data available
PH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	> 150 C (>300 F)
Flash point	> -4 C > 24 F PMCC
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	Flammable Liquid
Upper/lower explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density (Specific gravity)	0.95 Kg per Liter 7.9 Lbs per Gallon

Solubility	Reacts with water
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
VOC content	< 600 grams per liter

Section 10. Stability and reactivity

<u>10.1 Reactivity</u>	Reacts with water
<u>10.2 Chemical stability</u>	Stable under normal conditions
<u>10.3 Possibility of hazardous reactions</u>	Hazardous polymerization will not occur.
<u>10.4 Conditions to avoid</u>	Extreme high or low temperatures.
<u>10.5 Incompatible materials</u>	Water, alcohol, ammonia, amines, alkalies. Some reactions can be violent.
<u>10.6 Hazardous decomposition products</u>	Carbon monoxide, carbon dioxide, nitrogen oxides, and traces of hydrogen cyanide.

Section 11. Toxicology information**11.1 Information on toxicological effects**

Acute toxicity	No data available
Irritation/Corrosion	
Skin	May cause skin irritation or sensitization.
Eyes	May cause serious eye irritation and damage.
Respiration or skin sensitization	May cause respiratory irritation or sensitization.
Germ cell mutagenicity	No data available
Carcinogenicity	Product is based on reacted Toluene Diisocyanate (TDI) and a Polyurethane Reacted Polymer. A small amount of TDI (<1.3 %) and Ethylbenzene (< 0.9 %) may be present in the product. TDI and Ethylbenzene are materials that may reasonably be anticipated to be carcinogenic based on a NTP technical report on rats. Any potential hazard can be minimized by the proper use of personnel protective equipment, clothing and hygienic method.
Reproductive toxicity	No data available.
Specific target organ toxicity	
Single exposure	No data available
Repeated exposure	No data available
Aspiration hazard	May be fatal if swallowed and enters airways

Section 12. Ecological information

<u>12.1 Ecotoxicity</u>	Not established
<u>12.2 Persistence and degradability</u>	Not established
<u>12.3 Bioaccumulative potential</u>	Not established
<u>12.4 Mobility in soil</u>	No additional information available
<u>12.5 Other adverse effects</u>	Avoid release to the environment

SECTION 13. Disposal Considerations

<u>13.1 Waste treatment methods</u>	The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all applicable local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
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SECTION 14. Transport information



chemical solutions
to concrete problems

CLEAR PRE-FORM

Safety Data Sheet

According to Regulation 29 CFR 1910.1200
Regulation (EC) No. 1272/2008 (CLP)(GHS)

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN number	UN1866
14.2 UN proper shipping name	Resin Solution
14.3 Transport hazard class(es)	3 (Flammable Liquid)
14.4 Packing group	II
14.5 Environmental hazards	No additional information available
14.6 Special precautions for user	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No additional information available
14.8 Transport in bulk according to CFR 49 173.15	Not applicable

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.2 USA Regulations

Section 313

Contains the following ingredients at or above the reporting level requirements of Section 313. This information must be included in all SDS's copied or distributed for this material.

CHEMICAL	CAS #	MAX WEIGHT %
Xylene	1330-20-7	2.7
Ethylbenzene	100-41-4	0.9
1,2,4- Trimethylbenzene	95-63-6	2.4
Toluene Diisocyanate (mixed isomers)	26471-62-5	1.3
Methyl Ethyl Ketone	78-93-3	9.1
Toluene	108-88-3	4.7

TSCA

Proposition 65

All ingredients are listed or exempted
This product contains one or more chemicals known to the State of California to cause cancer and/or reproductive toxicity.

15.1.3 Canada Regulations

DSL

WHMIS

All ingredients are listed or exempted
This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16. Other information

Date of issue	6-13-2014
Version	2.0
Number	56
Date of previous issue	05-21-2010
Preparer	Nox-Crete Manufacturing Inc.

Reference Documentation

The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under our direct supervision, no representation is made that the information is accurate, reliable, complete or representative and Buyer may rely thereon only at Buyers risk. We have made no effort to censor or to conceal deleterious aspects of this product. Further since we cannot anticipate or control the many different conditions under which this information or our products may be used, we

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Full text of R, H and EUH phrases

Flam Liq. 2	H225	Flam Liq. 2 - Flammable liquids, hazard category 2
Asp. Tox. 1	H304	Asp. Tox. 1 - Aspiration hazard, hazard category 1
Skin Irrit. 2	H315	Skin Irrit. 2 - Skin irritation, hazard category 2
Skin Sens 1	H317	Skin Sens. 1 - Skin sensitization, hazard category 1
Eye Irrit. 2	H319	Eye Irrit. 2 - Serious eye damage / eye irritation, Category 2
Acute Tox 3	H331	Acute Tox. 3 (inhalation) - Acute toxicity (inhalation), hazard category 3
Resp Sens 1	H334	Resp. Sens. 1 - Respiratory sensitization, Category 1
STOT SE3	H335	STOT SE 3 - Respiratory tract irritation, hazard category 3
Car 2	H351	Car 2 - Carcinogenicity, Category 2

H225 - Highly flammable liquid and vapor

H304 – May be fatal if swallowed and enters airway

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351- Suspected of causing cancer

P210 - Keep away from heat/sparks/open flames/hot surfaces-No smoking

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - Wear respiratory protection

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 - IF ON SKIN: Wash with soap and water