

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name. Urethane Clear topcoat part A

1.2 Recommended use and restriction on use Floor Coating

General use Do not use except to purpose
Restriction on Use

1.3 Details of the supplier of the safety data sheet

Ultra epoxy,Corp
1201 Ave H,Grand Prairie,TX 75050
214-753-4423

1.4 Emergency telephone number

214-753-4423

SECTION 2: Hazards identification

2.1 GHS classification

Physical hazards	Flammable liquids : 3
Health hazards	Acute toxicity(dermal) : 4 Skin corrosion/irritation :2 Serious eye damage/eye irritation : 2A Skin sensitization : 1
Environmental hazards	Hazardous to the aquatic environment : 2

2.2 Label elements

GHS label elements, including
precautionary statements
Hazard symbols



Signal words
Hazard statements

Danger
H226 Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause organ damage through prolonged or repeated exposure.

URETHANE CLEAR TOPCOAT PART A

Material Safety Data Sheet

Precautionary statements Prevent	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed P242 Use only non-sparking tools. P243 Take precautions against static electricity. P260 Do not breathe (gas/mist/vapors/spray). P261 Avoid breathing (gas/mist/vapors/spray). P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Handle only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/safety glasses/face protection.
Response	P301+P310 If swallowed, seek medical attention immediately. P302+P352 If on skin: Wash with plenty of soap and water. P303+P361+P353 If on skin (or hair): Take off or remove all contaminated clothing. Wash skin with water. P304+P340 If inhaled: Move to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. If possible, remove contact lenses. P312 If you feel uncomfortable, consult a medical institution (doctor). P321 Give necessary first aid. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P370+P378 In case of fire, use a fire extinguisher to put out the fire.
Storage	P403+P233 Keep container tightly closed in a well-ventilated place. P403+P235 Store in a well-ventilated place and keep at low temperature. P405 Store in a locked storage location.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Chemical name	Trade name and Synonyms	CAS No	Content (%)
1,6-Diisocyanatohexane homopolymer	POLY(HEXAMETHYLENE DIISOCYANATE)	28182-81-2	30-40
Hexamethylene diisocyanate	Hexamethylene di-isocyanate	822-06-0	0.1-0.2
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	bis(2-ethylhexyl) terephthalate	6422-86-2	5-10
Solvent naphtha (petroleum), light arom.	-	64742-95-6	35-45
Dipropylene glycol dimethyl ether	Modified propylene glycol ether	111109-77-4	17-23

SECTION 4: First aid measures

General advice	Seek medical advice or medical attention if condition persists.
A. Eye contact	Flush eyes with plenty of water for at least 15 minutes. Get urgent medical attention. If eye irritation persists, seek medical advice/attention. If you are wearing contact lenses, remove them first. do not rub your eyes

B. Skin contact	<p>Take off contaminated clothing and shoes and wash immediately with soap and water for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. Immediately seek medical attention from a medical institution (doctor). If skin irritation occurs: Get medical advice/attention. Wash thoroughly after handling.</p>
C. Inhalation	<p>If exposed to large amounts of vapor or mist, move to a place with fresh air. Move to fresh air. Take action as necessary.</p> <p>If swallowed, seek medical attention immediately. If the substance is ingested or inhaled, use the mouth-to-mouth method. Please use appropriate respiratory medical equipment. If swallowed, rinse mouth. Don't try to make him vomit. Take action as necessary.</p>
D. Swallowing	

SECTION 5: Firefighting measures

A. Extinguish media Suitable Unsuitable	<p>Water spray,Dry powder,Carbon-dioxide,Foam. Do not use water jet as an extinguisher,as this will spread the fire.</p>
B. Specific hazards arising from the chemical	<p>In case of fire toxicumes might be formed. Heat,spark,fire can explosive</p>
C. Fire-fighting equipment/ instruction	<p>Fire-fighter must standard protective equip,ent including flame retardant coat, helmet, with face shield,g;oves, rubber boots,& in enclosed spaces,SCBA. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from dire area if you can do so without risk. For massive fire in cargo area,use unmanned hose holder or monitor nozzle,if possible. If not,withdraw and let fire burn out. Some of these materials, if spilled,may evaporate leaving a flammableresidue. Cool containers exposed to flames with water until well after the fire is out.</p>

SECTION 6: Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	<p>Dust, fumes, gas, mist or vapor,· Avoid inhalation of spray. Wipe spills immediately that, protection protest Follow precautions. Please remove all sources of ignition If you do not risk a leak, stop it Without appropriate protective clothing Do not touch damaged containers or spills There is no leak at the front of the fire protection of beams arc vapor Wear Please stop the spread by covering it with plastic sheets Prevent formation of dust</p>
B. Environmental precautions	<p>Please note that to avoid substances and conditions Avoid release to the environment. Waterways, sewers, basements, please avoid entering into a confined space</p>

URETHANE CLEAR TOPCOAT PART A



Material Safety Data Sheet

C. Methods and materials for containment and cleaning up

Embankments built for the digestion of water collection please.
Inert material (eg dry sand or earth), and to absorb spill, chemical waste, put it in a container.
Moisten with water to remove dust and prevent scattering follow.
To absorb the liquid detergent and wash contaminated area in the press.
When large amounts of liquid spills and leaks by far Make a ditch
Clean spillage collected using explosion-proof tools and follow a loosely covered plastic container and add
A shovel to clean spillage clean, dry container containing a loosely closed containers from spill area after the turn to move
Leak powder to prevent the spread by covering it with plastic sheeting to keep dry, please
Small spills on sand, non-combustible material to absorb and container fence to follow
Handling / storage please use caution.
Open your carefully before opening the cap.
Long-term or continuous skin contact barricade.
Please note that to avoid substances and conditions
Please pay attention to high-temperature
Disposal according to local regulations

SECTION 7: Handling and storage

A. Precautions for safe handling

Read and understand all safety precautions before you Do not handle.
Dust, fumes, gas, mist or vapor Avoid inhalation of spray.
Wash hands thoroughly after handling.
When using this product, eat, drink or Do not breathe.
A well-ventilated area or outdoors Please treat.
Workplace Do not export out of the contaminated clothing.
Pressure or, cut, or welding, soldering, bonding, drilling, grinding or heat, uncovered, flames, sparks, static electricity or other sources of ignition Do not expose to.
Product containers have been emptied of debris may remain after all MSDS / label precautions Follow.
Handling / storage please use caution.
Open your carefully before opening the cap.
Long-term or continuous skin contact barricade.
Please note that to avoid substances and conditions
Please pay attention to high-temperature

B. Conditions for safe storage

Do not use damaged containers.
Check periodically for leaks.
Do not apply heat directly.
Keep away from heat, sparks, open flames and high temperatures -
No smoking, no fire, please collect in an airtight container.
Be aware of substances and conditions to avoid.
Store away from water supplies and sewers.
Store container tightly closed in a well-ventilated place.
Store in a well-ventilated place and keep at low temperature.
Avoid static electricity and store away from heat sources such as boilers or combustibles.

URETHANE CLEAR TOPCOAT PART A



Material Safety Data Sheet

SECTION 8: Exposure controls/personal protection

A.Exposures limit value,biological limit value etc

Composition	Domestic Provision	ACGIH Provision
1,6-Diisocyanatohexane homopolymer	No data	No data
Hexamethylene diisocyanate	TWA : 0.034 mg/m ³ (0.005 ppm)	TWA : 0.005 ppm
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data	No data
Solvent naphtha (petroleum), light arom.	No data	No data
Dipropylene glycol dimethyl ether	TWA : 20 ppm	TWA : 20 ppm

B. Appropriate engineering controls

Process isolation, local exhaust, or air to adjust to levels below the exposure guidelines go for the other engineering controls.
During operation of dust, fume or mist occurs, the air pollution please ventilation to maintain exposures below occupational limits
Store or use this material, washing facilities and safety shower facility below to install.

C. Individual protection measures

Respiratory protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed
Respiratory protection is ranked in order from minimum to maximum.
Keep Consider warning properties before use.
Respirator (direct type small, organic gas)
Any chemical cartridge respirator (full facepiece and an organic vapor canister)
Any air-purifying respirator (full facepiece and an organic vapor canister)
For Unknown Concentrations or Immediately Dangerous to Life or Health if:
Any supplied-air respirator (compound airline mask), air respirator with a full facepiece

Eye/face protection

Protection from non-hazardous liquid products or Wear safety glasses.
Wash facilities and emergency workshop near three facilities (shower type) Keep installed.

Wear appropriate chemical resistant gloves.

SECTION 9: Physical and chemical properties

A. Appearance	
Physical state	Liquid
color	Clear
B. Odour	Not available
D. pH	Not available
E. Boiling point	Not available
F. Melting point	Not available
G. Freezing point	Not available
H. Flash point	> 32 °C (89 °F)
I. SP.Gr	Not available
J. Viscosity	Not available
K. Viper density	Not available
L. Viper pressure	Not available
M. Solubility	Insoluble
N. Explotion limits in air	Not available
O. specific gravity	1.0 ± 0.05 (Water :1)

SECTION 10: Stability and reactivity

Skin protection

A. Stability & hazardous reaction potential	Stable under recommended storage and handling. Containers may explode when heated. In case of fire, irritating, corrosive and toxic gases may be generated. Flammable liquids and vapors
B. Condition to avoid	Keep away from heat, sparks, open flames and high temperatures. -No smoking. Avoid incompatible substances and conditions.
C. Incompatible materials	combustible material Avoid incompatible substances and conditions.
D. Hazardous decomposition products	Irritating, toxic gas Irritating and extremely harmful due to thermal decomposition or combustion during burning. Toxic gases may be generated

SECTION 11: Toxicological information

*Information on likely route of exposure

May cause irritation, nausea, vomiting, and headache.
Causes serious eye irritation.
May cause irritation (sometimes severe).

A. Information on healthy hazards

Acute oral toxicity

1,6-Diisocyanatohexane homopolymer	LD50 > 2500 mg/kg(Rat)
Hexamethylene diisocyanate	LD50 746 mg/kg Rat
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	LD50(Rat):>5000mg/kg(IUCLID)
Dipropylene glycol dimethyl ether	LD50, Rat, 3,300 mg/kg

URETHANE CLEAR TOPCOAT PART A

Material Safety Data Sheet

Transcutaneous

1,6-Diisocyanatohexane homopolymer	LD50 > 2000 mg/kg(Rat)
Hexamethylene diisocyanate	LD50 559 mg/kg Rabbit
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	LD50(Rabbit):>2000mg/kg (IUCLID)
Dipropylene glycol dimethyl ether	LD50, Rat, > 2,000 mg/kg

Inhalation

1,6-Diisocyanatohexane homopolymer	LC50 390~453 mg/kg, 4 hr, Rat
Hexamethylene diisocyanate	LC50 0.124 mg/L (124 mg/m ³ 4hr) Rat
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	LC50(Rat):5.2mg/L (IUCLID)
Dipropylene glycol dimethyl ether	LC50, Rat, 4 h, vapor, > 5.25 mg/l

Skin corrosion or irritation

1,6-Diisocyanatohexane homopolymer	Prolonged skin contact may cause temporary irritation.
Hexamethylene diisocyanate	Rabbits: Corrosive to skin.
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	Causes mild irritation in humans upon occasional skin exposure.
Solvent naphtha (petroleum), light arom.	May cause irritation.
Dipropylene glycol dimethyl ether	No irritation.

Serious eye damage or irritation

1,6-Diisocyanatohexane homopolymer	Direct eye contact may cause temporary irritation.
Hexamethylene diisocyanate	Rabbit: Causes eye irritation.
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	Slightly to moderately irritating.
Dipropylene glycol dimethyl ether	a little irritation

Respiratory sensitization

1,6-Diisocyanatohexane homopolymer	Not a respiratory sensitizer
Hexamethylene diisocyanate	Rabbit, causes sensitization.
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	Not applicable
Dipropylene glycol dimethyl ether	No data

Skin sensitization

1,6-Diisocyanatohexane homopolymer	Not considered to cause skin sensitization.
Hexamethylene diisocyanate	Guinea pigs, sensitized at 1.0% concentration.
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	Not applicable
Dipropylene glycol dimethyl ether	In small numbers, it causes allergic reactions.

URETHANE CLEAR TOPCOAT PART A

Material Safety Data Sheet

Carcinogenicity

	IARC	OSHA	ACGIH	NTP	EU CLP
1,6-Diisocyanatohexane homopolymer	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Hexamethylene diisocyanate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data	No data	No data	No data	Not applicable
Solvent naphtha (petroleum), light arom.	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Dipropylene glycol dimethyl ether	No data	No data	No data	No data	Not applicable

SECTION 12: Ecological information

A. Aquatic/terrarium toxicity

Fishes

1,6-Diisocyanatohexane homopolymer	LCL0, > 100 mg/l, 96 h (Pisces)
Hexamethylene diisocyanate	LC0 Danio rerio ≥ 82.8 mg/L 96h (ECHA)
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	LC50=9.22mg/l, 96h, Oncorhynchus mykiss
Dipropylene glycol dimethyl ether	LC50/EC50/EL50/LL50>100mg/L

Crustacea

1,6-Diisocyanatohexane homopolymer	LC50, 127 mg/l, 48 h (Water flea)
Hexamethylene diisocyanate	EC50 ≥ 89.1 mg/ l 48 hr (NITE)
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	No data
Dipropylene glycol dimethyl ether	LC50,(Water flea), 24 h, > 1,000 mg/l

Birds

1,6-Diisocyanatohexane homopolymer	EC50 > 1000 mg/l, 72, (Algae)
Hexamethylene diisocyanate	EC50 >77.4 mg/ l 72 hr (ECHA)
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	No data
Dipropylene glycol dimethyl ether	No data

B. Persistence and degradability

Persistence

1,6-Diisocyanatohexane homopolymer	Log Kow 9.81 (ECHA)
Hexamethylene diisocyanate	log Kow 1.07 (ICSC)
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	log Kow = 8.390 (est, NLM: HSDB)
Solvent naphtha (petroleum), light arom.	Oxidized by photochemical reaction in the presence of air
Dipropylene glycol dimethyl ether	No data

Degradability No data

URETHANE CLEAR TOPCOAT PART A

Material Safety Data Sheet

C. Bioaccumulative potential Accumulative potential

1,6-Diisocyanatohexane homopolymer	No data
Hexamethylene diisocyanate	No data
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	Possible.
Dipropylene glycol dimethyl ether	BCF<100 or Log Pow <3, low concentration potential.

Biodegradability

1,6-Diisocyanatohexane homopolymer	1%, 28d (O2 consumption), (ECHA)
Hexamethylene diisocyanate	42% 28 days, (ECHA)
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	No data
Solvent naphtha (petroleum), light arom.	No data
Dipropylene glycol dimethyl ether	18~32%, 28 days, OECD Test Guideline 301B

F. Mobility in soil

1,6-Diisocyanatohexane homopolymer	No data
Hexamethylene diisocyanate	No data
1,4-Benzenedicarboxylic acid bis (2-ethylhexyl) ester	Ko = 870,000
Solvent naphtha (petroleum), light arom.	No data
Dipropylene glycol dimethyl ether	0<Koc<50

G. Other adverse effect	No data
-------------------------	---------

SECTION 13: Disposal considerations

A. Disposal methods

Waste is a mixture of two or more is specified, the process is difficult to separate
In case of incineration or similar may be stabilized reduction
Detachable water separation leading the way will be pre-treated
Will be incinerated
Keep high-temperature incineration.
Substances such as organic solvents, recycling and recovery of the high-temperature incineration residues Keep

B. Disposal Considerations

Operators to discharge industrial waste (industrial waste emitters) in the workplace Themselves or waste treatment, waste disposal contractor, and others who regeneration of waste, waste treatment facilities, person who establish and operate should be handled.

SECTION 14: Transport information

A. UN number	1263
B. UN Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
C. Transport hazard class	Class 3
D. Packing group	3
E. Environmental hazards	Not available
In case of fire emergency	F - E
Emergency spill	S - E

URETHANE CLEAR TOPCOAT PART A



Material Safety Data Sheet

SECTION 15: Regulatory information

A. National and/or international regulatory information

POPs Management Law	Not applicable
U.S. Federal regulations	
OSHA PROCESS SAFETY	Not applicable
CERCLA Section 103	Not applicable
EPCRA Section 302	Not applicable
EPCRA Section 304	Not applicable
EPCRA Section 313	Not applicable
Rotterdam Convention listed ingredients	Not applicable
Stockholm Convention listed ingredients	Not applicable
Montreal Protocol listed ingredients	Not applicable
Information of EU Classification(Classification)	Not applicable

Information of EU Classification(Risk Phrases)

R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic life, long lasting in the aquatic environment
May cause adverse effects.

Information of EU Classification(Safety Phrase)

S2 Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.
S37/39 Wear suitable protective gloves and eye/face protection
S61 Avoid release to the environment.
Refer to environment-related laws and health data

SECTION 16: Other information

A. The source of data

-The information contained herein is believed to be accurate.
It is provided independently of any sale of the product for purpose of hazardcommunication.
It is not intended to constitute performance information concerning the product.
No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: OSHA, NITE, ESIS, NLM, SIDS, IPCS

Hazardous Material Information System (HMIS):

Scale 0-4 NFPA HMIS

4=Severe Hazard

3=Serious Hazard

2=Moderate Hazard

1=Slight Hazard

0=Minimal Hazard

Health : 2

Flammability : 2

Reactivity : 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.