

SAFETY DATA SHEET

SAUEREISEN

310 Conothane Glaze, Part A, Hardener

Date Prepared : 05/08/2015

SDS No : SCC-310A

Date Revised : 11/01/2016

Revision No : 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 310 Conothane Glaze, Part A, Hardener**PRODUCT DESCRIPTION:** Conothane Glaze, Part A, Hardener**PRODUCT CODE:** 310PA**PRODUCT FORMULATION NAME:** 310 Conothane Glaze, Part A, Hardener**CHEMICAL FAMILY:** Isocyanate**MANUFACTURER**

Sauereisen

160 Gamma Drive

Pittsburgh, PA 15238

Emergency Contact: John Kozak**Emergency Phone:** (800)424-9300**Alternate Contact:** Don Schubert**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

Poison Control Center (Medical):1-800-222-1222

CHEMTREC (US Transportation): 1-800-424-9300

CHEMTREC (Outside US):1-703-527-3887

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Skin Irritation, Category 2

Eye Irritation, Category 2B

Respiratory Sensitization, Category 1B

Acute Toxicity (Inhalation), Category 4

Environmental:

Acute Hazards to the Aquatic Environment, Category 3

Physical:

Flammable Liquids, Category 3

GHS LABELExclamation
mark

Flame

Health
hazard**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

H402: Harmful to aquatic life.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H332: Harmful if inhaled.

H226: Flammable liquid and vapour.

PRECAUTIONARY STATEMENTS**Prevention:**

- P273: Avoid release to the environment.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P285: In case of inadequate ventilation wear respiratory protection.
- P264: Wash ... thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.

Response:

- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER/doctor/...if you feel unwell.
- P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P302+P352: IF ON SKIN: Wash with plenty of water/...
- P321: Specific treatment (see ... on this label).
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing.
- P370+P378: In case of fire: Use carbon dioxide, foam, dry chemicals, or sand to extinguish.

Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P235: Keep cool.

Disposal:

- P501: Dispose of contents/container in accordance with local/national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
hexane, 1,6-diisocyanato-, homopolymer	< 75	28182-81-2
Xylenes (o-,m-,p- Isomers)	< 10	1330-20-7
N-butyl Acetate	< 15	123-86-4
Ethyl Benzene	< 5	100-41-4

4. FIRST AID MEASURES

EYES: Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

SKIN: Wash promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety hower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

INGESTION: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: If difficulty breathing, move to fresh at air once. For acute overexposure, give oxygen if breathing is difficult. Apply artificial respiration if breathing has stopped. Seek Medical attention. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Consult a physician should this occur.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Liquids, aerosols, or vapors are irritating and can cause tearing, reddening or swelling. If left untreated, corneal damage can occur and injury is slow to heal. Damage is usually reversible.

SKIN: Isocyanates react with skin proteins and moisture and can cause irritation which may include reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove.

SKIN ABSORPTION: Prolonged contact with Isocyanates can cause skin sensitization. Animal tests have indicated that respiratory sensitization can result from skin contact. This data reinforces the need to prevent direct skin contact with MDI.

INGESTION: Can result in irritation and corrosive action in the mouth, stomach tissue, and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

INHALATION: Vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tracts (nose, throat and lungs), causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.

ACUTE EFFECTS: Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasms, and pulmonary edema (fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure.

CHRONIC EFFECTS: As a result of previous repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (Chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath, or asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many non specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure persists for weeks and in severe cases for years. Overexposure to isocyanates has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Sensitization can either be temporary or permanent.

NOTES TO PHYSICIAN: Medical conditions aggravated by exposure: Asthma, other respiratory disorders (Bronchitis, emphysema and bronchial hyperactivity), skin allergies, and eczema.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Flammable

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical, and foam.

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may be toxic.

EXPLOSION HAZARDS: Not sensitive to mechanical impact or static discharge

FIRE FIGHTING PROCEDURES: Full emergency equipment including self contained breathing apparatus should be worn.

FIRE FIGHTING EQUIPMENT: Toxic fumes will be evolved when this material is involved in a fire. Self-contained breathing apparatus should be available for fire fighters.

FIRE EXPLOSION: At temperatures above 400F (204 C) polymeric MDI can polymerize and decompose which can cause pressure build up in closed containers. Use cold water to cool fire exposed containers and prevent explosive rupture.

SENSITIVE TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide, nitrogen oxides, traces of hydrogen cyanide, MDI vapors and various complex hydrocarbons or aerosols.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Evacuate and ventilate spill area. Dike spill to prevent entry into water system. Absorb isocyanates with sawdust or other absorbent. Shovel into suitable unsealed containers. Transport to well-ventilated area (outside) and treat with neutralizing solution. Neutralizing solution: mixture of water (80%) with non-ionic surfactant tergitol tmn-10 (20%) or water (90%); concentrated ammonia (3-8%); detergent (2%). Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow to stand uncovered for 48 hours to let CO₂ escape. Clean-up: decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

LARGE SPILL: Large quantities may be pumped into closed but not sealed containers for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Wear full protective equipment, including respiratory equipment during clean-up.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

- Avoid contact with eyes, skin, and clothing.
- For industrial use only!
- Harmful if inhaled.
- Do not take internally.
- May cause irritation.
- Do not eat, drink or smoke when using this product.
- Wear chemical splash goggles, gloves and protective clothing.
- Avoid high ambient temperatures and humidity.
- Wash thoroughly after handling.

STORAGE: Store in a cool, dry place.

- Keep container closed when not in use.
- Store away from direct heat and flame.
- Keep away from food and drinking water.
- DO NOT SMOKE where product is used or stored.
- Store in a well-ventilated place.

COMMENTS:

*This material is designed to be pumped, not sprayed, MDI becomes more hazardous when atomized (sprayed). The hazard data is derived from tests performed when the material is sprayed and should be considered, but may not apply to pumping operations. Internal hygiene studies have found MDI airborne levels to be less than 0.006 mg/m³.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	Type		ppm	mg/m ³
	hexane, 1,6-diisocyanato-, homopolymer	OSHA PEL	TWA	
ACGIH TLV		TWA		0.5
Xylenes (o-,m-,p- Isomers)	OSHA PEL	TWA	100	435
	ACGIH TLV	TWA	100	434
		STEL		150
N-butyl Acetate	OSHA PEL	TWA	150	710
	ACGIH TLV	TWA	150	713
		STEL		200
Ethyl Benzene	OSHA PEL	TWA	100	435
	ACGIH TLV	TWA	100	434
		STEL		125

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Liquid chemical goggles. Vapor resistant goggles should be worn if contact lenses are in use. In a splash hazard environment, chemical goggles should be used in combination with a full face shield.

SKIN: Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

RESPIRATORY:

Concentrations greater than TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134).

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR THRESHOLD: Not Available

APPEARANCE: Liquid

COLOR: Clear

pH: Not Established

PERCENT VOLATILE: 51

FLASH POINT AND METHOD: (91°F)

FLAMMABLE LIMITS: 1.0% to 10.4%

VAPOR PRESSURE: 13

VAPOR DENSITY: 4

BOILING POINT: (252°F) to (289°F)

SOLUBILITY IN WATER: Not Established

EVAPORATION RATE: Not Established

SPECIFIC GRAVITY: Not Established

10. STABILITY AND REACTIVITY

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: May occur. Conditions to avoid: moisture, and other isocyanate reactive materials or excessive temperatures above 400F may cause polymerization/

STABILITY: Stable under normal conditions of use and storage.

CONDITIONS TO AVOID: Contamination with water and high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, traces of hydrogen cyanide, MDI vapors and various complex hydrocarbons/

INCOMPATIBLE MATERIALS: (Materials to Avoid) water, amines, strong bases and alcohols. Will cause some corrosion to copper alloys and aluminum.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: No data available.

ORAL LD₅₀: No data is available on the product itself.

Notes: Components:

1,6-Hexamethylene Diisocyanate: LD50, rat: greater than 10,000 mg/kg

INHALATION LC₅₀: No data is available on the product itself.

Notes: Components:

1,6-Hexamethylene Diisocyanate: LC50, rat: 137 to 1150 mg/cubic meter 4 hours

SERIOUS EYE DAMAGE/IRRITATION: Eye, Skin and Inhalation Irritant.

RESPIRATORY OR SKIN SENSITISATION: Skin and Respiratory sensitizer.

GERM CELL MUTAGENICITY: Monomeric MDI is positive in the Ames assay (with hepatic microsomal activation). However, it was negative in an invivo-invivo micronucleus assay.

GENERAL COMMENTS: The International Isocyanate Institute is sponsoring a lifetime inhalation study on polymeric MDI in rats. This study is currently underway.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE): LC 50, 24 hours greater than 500 mg/L for daphnia magna, limnea stagnalis and zebra fish. for both polymeric and monomeric MDI.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material should be disposed of as hazardous waste in accordance with Federal, state and local environmental regulations. Dispose of containers with any amount of liquid material as hazardous waste. Dilution followed by incineration is the preferred disposal method. Dilute 10:1 with a clean compatible and combustible solvent, e.g. #2 fuel oil or mineral oil, to reduce reactivity hazards during incineration, handling and transportation.

EMPTY CONTAINER: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Paint & related material, compounds.

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1263

PACKING GROUP: III

LABEL: Flammable Liquid

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Paint & related material, compounds.

UN NUMBER: UN1263

HAZARD CLASS: 3

PACKING GROUP: III

LABEL: Flammable Liquid

AIR (ICAO/IATA)

SHIPPING NAME: Paint & related material, compounds.

UN/NA NUMBER: UN1263

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

LABEL: Flammable Liquid

VESSEL (IMO/IMDG)

SHIPPING NAME: Paint & related material, compounds.

UN/NA NUMBER: UN1263

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

LABEL: Flammable Liquid

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Paint & related material, compounds.

UN/NA NUMBER: UN1263

PRIMARY HAZARD CLASS/DIVISION: 3**PACKING GROUP:** III**LABEL:** Flammable Liquid**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable
Liquid

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

S3/9/14: Keep in a cool, well-ventilated place away from...

See section 10 for list of incompatible materials

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S49: Keep only in the original container.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute. Chronic. Fire Hazard. Irritant.

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Dimethyl Phthalate * 131-22-3 * 50%

Hydrogen Peroxide * 7722-84-1 * <2%

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Xylenes (o-,m-,p- Isomers)	< 10	1330-20-7
Ethyl Benzene	< 5	100-41-4

TITLE III NOTES: None above detection limits.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Xylenes (o-,m-,p- Isomers)	< 10	100
N-butyl Acetate	< 15	5,000
Ethyl Benzene	< 5	1,000

CERCLA RQ: 5000 lb (2270 kg) final RQ for Diphenylmethane Diisocyanate

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
hexane, 1,6-diisocyanato-, homopolymer	28182-81-2
Xylenes (o-,m-,p- Isomers)	1330-20-7
N-butyl Acetate	123-86-4
Ethyl Benzene	100-41-4

TSCA STATUS: Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CALIFORNIA PROPOSITION 65: Known to the State of California to cause cancer and reproductive toxicity and subject to

warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

Chemical Name	Wt.%	Listed
Ethyl Benzene	< 5	Cancer

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Toxic

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

S3/9/14: Keep in a cool, well-ventilated place away from...

See section 10 for list of incompatible materials

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S49: Keep only in the original container.

WHMIS CLASS: Class B, Division 2, Flammable Liquid.

Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

DOMESTIC SUBSTANCE LIST (INVENTORY): Components included on inventory

16. OTHER INFORMATION

PREPARED BY: John A Kozak **Date Revised:** 11/01/2016

REVISION SUMMARY: This SDS replaces the 06/28/2016 SDS. Revised: **Section 14:** AIR (ICAO/IATA) (UN/NA NUMBER), DOT (DEPARTMENT OF TRANSPORTATION) (UN/NA NUMBER), UN/NA NUMBER, ROAD AND RAIL (ADR/RID) (UN NUMBER), SHIPPING NAME, VESSEL (IMO/IMDG) (UN/NA NUMBER).

HMIS RATING

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		2
PERSONAL PROTECTION		H