SAFETY DATA SHEET

Date Prepared: 6/22/2018 Date Modified: 2/1/2021 Date Printed: 2/1/2021

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MATERIAL IDENTITY:
Urethane Hardener (B)

COMPANY:
Countertop Epoxy
787 Valley Ct
Grand Junction, CO 81505

INFORMATION TELEPHONE: 920-803-1700

EMERGENCY TELEPHONE:
CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Danger. May cause allergic skin reaction. May cause skin, eye, and respiratory tract irritation. Harmful by inhalation or if swallowed.

Component information/information on Non-hazardous Components: No Data available

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Health		Environmental		Physical
Flammable Liquids Skin Corrosion Eye irritation Skin Sensitization	Category 4 Category 1C Category 2A Category 1A	Acute Aquatic toxicity	Category 3	

Pictogram:

Signal Word **DANGER**

Hazard Statements	Precautionary Statements

H227 Combustible liquid H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H402 Harmful to aquatic life	P210 Keep away from heat/sparks/open flames/hot surfaces. -No Smoking P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the work place. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352+P312 IF ON SKIN: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting P303+P361+P353 IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water/ shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 Immediately Call a POISON CENTER or doctor/ physician. P333+P313: If skin irritation or a rash occurs: Get medical attention/advice. P370 = P378 in case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide to extinguish. P405 Store locked up. P403+P235 Store in well ventilated place. Keep cool P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Ingredient(s)	CAS Number	% (by weight)
Isophoronediamine-isobutyraldamine	54914-37-3	100 %

4. FIRST AID MEASURES

Eyes Contact: Check for and remove any contact lenses. Immediately flush eyes gently with large amounts of water for at least 15 minutes. Retract eyelids often. Immediately call a POISON CONTROL CENTER or seek medical attention.

Skin Contact: Remove contaminated clothing. Wash the exposed area with mild soap and water and rinse thoroughly. Flush w/lukewarm water for at least 15 minutes. Launder contaminated clothing before re-use or discard. Immediately call a POISON CONTROL CENTER or seek medical attention.

Ingestion: Harmful if swallowed. Rinse mouth with water. If breathing has stopped, trained personnel should begin rescue breathing. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CONTROL CENTER or seek medical attention.

Inhalation: If overcome by exposure, remove source of exposure and move victim to fresh air immediately. Give oxygen or artificial respiration as needed. If heart has stopped, immediately start cardiopulmonary resuscitation (CPR). Obtain emergency medical attention immediately.

5. FIRE FIGHTING MEASURES

Unusual fire or explosion hazards
Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/ fumes may be given off during burning or thermal decomposition. Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Autoignition may occur with cotton waste or similar combustible material.

Suitable extinguishing media
Use extinguishing media appropriate to surrounding fire conditions. Water spray (fog), alcohol resistant foam, dry chemical or carbon dioxide. DO NOT use a water stream (jet) as an extinguisher.

Hazardous Decomposition Products
Isopheronediamine,, isobutyraldehyde, nitrogen oxides, carbon monoxide, carbon dioxide and perhaps other toxic vapors.

Fire Fighting Instructions
Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent and protective clothing. See Section 10 – decomposition products possible. Do not use water jet. Closed container may forcibly rupture under extreme heat. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition. Contain runoff to prevent entry to water or drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental Precautions
Prevent runoff from entering drains, sewers, or streams. Discharge to the environment must be avoided.

Methods and Materials for Containment and Cleaning Up
Stop the leak if it can be done without risk. Move containers from the spill area. Prevent entry into sewers, water ways or soils by diking and recovering large spills. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into vented container. Dispose of all residuals according to local regulations via a licensed waste disposal contractor. Containers and contaminated absorbent materials may pose the same hazards as the spilled product. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean up. See section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid breathing vapors or spray mists. Avoid contact with eyes, skin, and clothing. Keep container tightly closed and store in a cool, well ventilated area away from: heat, sparks, open flame, strong oxidizers, radiation and other initiators. Prevent contamination by foreign materials.

Conditions for Safe Storage
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.

Incompatible Materials or Ignition Sources:

Stable under recommended storage conditions. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition – No smoking. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. AN ignitable vapor-air mixture can form inside storage tanks. The user must be sure to dissipate static charge by careful bonding and grounding of all equipment, and personnel involved in flui transfer should conduct continuity checks to prove effectiveness of bonding and grounding. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines; flame arrestors in vent lines. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

HAZARDOUS COMPONENT	PEL	STEL	TLV	Other
Isophorondiamine-isobutyraldamine	NE	NE	NE	NE

Engineering Controls
Use local exhaust to provide adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. Respiratory protection may be required in addition to general room ventilation. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and prevent off-gases from entering the work place.

Respiratory Protections
In case of inadequate ventilation use a properly fitted, air-purifying or air supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards or the product and the safe working limits of the selected respirator. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8,1998

Eye/Face Protection
Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

Hands
Se permeation resistant gloves such as butyl rubber, nitrile rubber or neoprene.

Skin and Body Protection
When skin contact is possible, protective clothing including apron, sleeves, boots head and face protection impervious to this material should be worn. Wear chemical resistant gloves such as neoprene, rubber, latex, etc.

Other hygienic practices
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid
Color	Clear light yellow
pH	Not available
Melting/Freezing Temperature	Not available
Boiling Point	302 C/ 576 F
Flash Point	130 C/ 267 F TOC
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	Not available
Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	0.868 @ 25C/77F
Percent Volatiles	< 0.1%
Evaporation Rate (Bac=1)	Not available
Odor	Amine like
Odor threshold	Not available

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Autoignition may occur with cotton waste or similar combustible materials.

Conditions to Avoid
Air humidity, water

Materials to Avoid
Reactive or incompatible with: strong oxidizers, Water, cotton waste or other combustible materials.

Hazardous Decomposition Products
Isopheronediamne, butyraldehyde, carbon monoxide, carbon dioxide nitrogen oxides and perhaps other toxic vapors may be released during a fire involving this product.

11. TOXICOLOGY INFORMATION

Toxicity

Isopheronediamine-isobutyraldamine

Acute Toxicity

LD50: (Oral rat)	4,150 mg/kg
LD50: (Dermal Rabbit)	>5,000mg/kg
LD50 Dermal Guinea pig	Corrosive, Category 1C

Skin Corrosion/Irritation

Skin (Guinea pig)	Skin sensitizer sub-category 1A

Serious Eye Damage/Eye Irritation

Eye (rabbit)	Irritating

Respiratory

Respiratory (mouse)	No data available

Mutagenicity
None Known

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

12. ECOLOGICAL INFORMATION

Aquatic Ecotoxicity

Isopheronediamine-isobuyraldamine

Fish	LC50 Danio rerio: >100mg/l/96 h
Aquatic invertebrates	EC50 Daphnia magna: 14.7mg/l/48 h

	NOEC Daphnia magna; 3mg/l/21d
Algae	ErC50 Desmodesmus subspicatus;>100mg/l
	NOEC Desmodesmus subspicatus;7.6mg/l
Bacteria	EC50 Activated sludge: 302 mg/l/3 h

Persistence and degradability

Exposure time:28 d Result 34% not readily biodegradable

Bioaccumulative Potential

No data available

Mobility in soil

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

14. TRANSPORTATION INFORMATION

DOT (US)

UN 2735, Amines, liquid, corrosive n.o.s. (blocked diamine), 8, III

IMDG

UN 2735, Amines, liquid, corrosive n.o.s. (blocked diamine), 8, III

TDG

UN 2735, Amines, liquid, corrosive n.o.s. (blocked diamine), 8, III

15. REGULATORY INFORMATION

TSCA INVENTORY STATUS

All components are listed or exempt

SARA TITLE III: Section 311/312 Hazard Class

Acute Health Hazard, Fire Hazard

SARA TITLE III: Section 313 (40CFR370)

This product does contain chemicals which are listed in Section 313 at or above the de minimus concentrations

CERCLA Information (40CFR302.4)

This material contains no hazardous or extremely hazardous substances at or above the de minimus concentrations as defined by CERCLA.

California Proposition 65 Information:

This product does not contain substances known to the state of California to cause cancer.

16. OTHER INFORMATION

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources, which we believe are reliable. However, the

information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

*Note – qualifiers and codes that may be used in this SDS

EQ=Equal; AP= Approximately; LT= Less Than; GT = Greater Than; TR =Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable Information Found; N/DA = No Data Available;
NE = Not Established