

Rapid Repair Part A

SAFETY DATA SHEET

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Duracorp

2664 Vista Pacific Dr. Oceanside, CA 92056

Emergency: CHEMTREC 800 424-9300 (24 HOURS)

Section 2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Respiratory or skin sensitization, 1 Respiratory

Health, Respiratory or skin sensitization, 1 Skin

Health, Skin corrosion/irritation, 2

Health, Carcinogenicity, 2

Health, Serious Eye Damage/Eye Irritation, 2 A

Health, Specific target organ toxicity - Single exposure, 3

Health, Acute toxicity, 5 Oral

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:





GHS Hazard Statements:

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

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H351 - Suspected of causing cancer.

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H303 - May be harmful if swallowed

GHS Precautionary Statements:

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

P264 - Wash exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

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

P284 - Wear respiratory protection.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305+351+338 - IF IN EYES: Rinse continuously 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.

P330 - Rinse mouth.

P501 - Dispose of contents/container to a licensed waste disposal facility.

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Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Ingestion; Inhalation; Skin; Target Organs: Respiratory system; Skin; Eyes;

Inhalation: At room temperature, MDI vapors are minimal due to low vapor pressure. However, heating,

spraying, foaming, or otherwise mechanically dispersing (drumming, venting or pumping) operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs. Severe overexposure may lead to pulmonary edema. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, dryness of throat, headache, nausea, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilator

capacity) has been associated with overexposure to isocyanates

Chronic: As a result of previous repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma) or tissue injury in the upper respiratory tract. Animal tests indicate skin contact alone may also lead to allergic respiratory reaction. These effects may be permanent. Any person developing asthmatic reaction or other sensitization should

be removed from further exposure

Skin Contact: Product is a skin sensitizer. Causes irritation with symptoms of reddening, itching and swelling.

Prolonged or repeated exposure can cause skin irritation, reddening, dermatitis, and in some individuals, sensitization. Skin contact may result in allergic skin reactions or respiratory sensitization, but is not expected to result in absorption of amounts sufficient to cause other

adverse effects. May stain skin. Cured material is difficult to remove.

Eye Contact: As a liquid, vapor, aerosol or dust, may cause irritation, inflammation, and/or damage to sensitive

eye tissue. Symptoms include reddening, tearing, stinging and swelling. May cause corneal injury.

Prolonged contact may cause conjunctivitis.

Ingestion: Single dose oral toxicity is considered to be extremely low. Can result in irritation and corrosive

action in the mouth, stomach tissue and digestive tract. Symptoms can include nausea, vomiting, sore throat, abdominal pain and diarrhea. Ingestion is not an applicable route of entry for intended

use

Section 3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
101-68-8	30-50%	4,4'-Methylenediphenyl diisocyanate
26447-40-5	65-85%	Benzene, 1,1'-methylenebis[isocyanato-
0	15-35%	MDI Prepolymer, trade secret

Section 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be

administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Skin Contact: Wash off in flowing warm water or shower with soap. Remove and wash contaminated clothing and discard

contaminated shoes. For severe exposure, get under safety shower after removing clothing, then seek medical attention. If redness, itching or a burning sensation develops or persists after the area is washed,

consult a physician.

Eye Contact: Flush with large amounts of water for 15 minutes. Materials containing MDI may react with the moisture in

the eye forming a thick material that is difficult to remove. Get immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. Give 1-2 cups of milk or water to drink. Never give anything by mouth to an

unconscious person. Seek medical attention.

Section 5	FIRE FIGHTING MEASURES
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Flammability: OSHA - none; DOT - none

Flash Point: 460°F
Flash Point Method: PMCC
Burning Rate: N/A
Autoignition Temp: NDA
LEL: N/A
UEL: N/A

Use dry chemical, foam, carbon dioxide, foam or water spray for large fires. The reaction between water and hot isocyanate may be vigorous. If possible, contain fire run-off water.

Protective Equipment: Wear positive-pressure self-contained breathing apparatus with full face mask and full protective clothing.

Unusual Hazards: At temperatures greater than 400°F, polymeric MDI can polymerize and decompose which will cause pressure build-up in closed containers. Explosive rupture is possible. Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture the containers. Downwind personnel must be evacuated. Fire Degradation Products: Isocyanate vapor and mist, carbon dioxide, carbon monoxide, nitrogen oxides and traces of hydrogen cyanide.

Section 6 ACCIDENTAL RELEASE MEASURES

Spill: Evacuate and isolate spill area. Remove any ignition sources. With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to metal waste containers. Move container to a well ventilated area (outside), but do not seal the container with the isocyanate mixture. Larger quantities of liquid may be transferred directly to drums for disposal. Decontaminate or discard all clean-up equipment. **NOTE:** ISOCYANATES WILL REACT WITH WATER AND GENERATE CARBON DIOXIDE. THIS COULD RESULT IN THE RUPTURE OF ANY CLOSED CONTAINERS.

Clean up: The area should then be flushed with a decontamination solution. The decontamination solution is a 5-10% mixture of sodium carbonate and 0.5% liquid detergent in water solution or a 3-8% concentrated ammonium hydroxide and 0.5% liquid detergent in water. Use 10 parts decontamination solution to 1 part spilled material. If the ammonium hydroxide solution is used, ammonia will be evolved as a vapor. Use caution to avoid exposure to high concentrations of ammonia. Allow to stand for 48 hours letting evolved carbon dioxide escape.

Section 7 HANDLING AND STORAGE

Handling Precautions: Handling: Use personal protective equipment when transferring material to or from drums,

totes or other containers. The reaction of polyols and isocyanates generates heat. Contact of the reacting materials with skin or eyes can cause irritiation and may be difficult to remove from the affected areas. Do not smoke or use naked lights, open flames, space heaters, or

other ignition sources near pouring, frothing or spraying operations.

Special Emphasis for Spray Applications: Inspect the application area from the potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors, persons entering or exiting the building as well as those inside could be exposed to polyisocyanates due to wind conditions, open windows or air intakes. Do

not begin application work until these potential problems have been corrected.

Storage Requirements: Storage: When stored between 15 and 30°C (60 and 85°F) in dry place in tightly sealed

containers, typical shelf life is 6 months or more from the date of manufacture. Consult technical data sheet for shelf life requirements affecting performance quality. Should freezing occur, the material must be thawed thoroughly and mixed until uniform. Opened containers must be handled properly to prevent moisture pickup. Do not reseal if contamination is

suspected.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: MDI has a low vapor pressure at room temperature. Monitoring is required to determine

engineering controls. Uses requiring heating and/or spraying may require more agressive

engineering controls or PPE. Eyewash and safety showers should be available.

Personal Protective Equipment:

HMIS PP, X | Consult your supervisor for special instructions

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [30-50%]

Components with workplace control parameters

TWA 0.0050 ppm USA. ACGIH Threshold Limit Values (TLV)

Respiratory sensitization

С 0.02 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

0.2 mg/m3 1910.1000

С 0.02 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1

0.2 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air

TWA 0.0050 ppm USA. NIOSH Recommended Exposure Limits

0.05 mg/m3 10 minute ceiling value

С 0.2 ppm USA. NIOSH Recommended Exposure Limits

0.2 ma/m3 10 minute ceiling value

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Non-pigmented liquid. Appearance:

Physical State: Liquid Odor: musty Spec Grav./Density: 9.44 lb/gallon Molecular Formula: N/A

Viscosity: approx. 400 cps Solubility: Not soluble in water; REACTS with w

Boiling Point: >354°F **Percent Volatile:** 0% Freezing/Melting Pt.: Flammability: None 60°F Evap. Rate: <1 Flash Point: >460°F Vapor Density: >1

Auto-Ignition Temp: NDA

Section 10 STABILITY AND REACTIVITY

Chemical Stability: Polyisocyanates are highly reactive chemicals that should be handled and stored in a way to

avoid many common substances, including water and moisture. Product is stable under

normal conditions.

Conditions to Avoid: Moisture and/or water. High temperatures, sparks, flame and temperature above 350°F.

Materials to Avoid: Water; strong bases; alcohols; amines; metal compounds;

Hazardous Decomposition: By fire or excessive heat: carbon monoxide, carbon dioxide, oxides of nitrogen, traces of

hydrogen cyanide, ammonia and MDI vapors. Excess gas may rupture containers.

Hazardous Polymerization: May occur with incompatible reactants, especially strong bases, water or temperatures over

320°F (50°C).

Section 11 TOXICOLOGICAL INFORMATION

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [30-50%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 4,700 mg/kg Inhalation LC50 Dermal LD50 no data available

Other information on acute toxicity

Skin corrosion/irritation: Serious eye damage/eye irritation:

Eyes - rabbit - Moderate eye irritation

Respiratory or skin sensitization: no data available

May cause allergic respiratory and skin reactions

Germ cell mutagenicity: Laboratory experiments have shown mutagenic effects.

Genotoxicity in vitro - Human - lymphocyte Sister chromatid exchange

Genotoxicity in vivo - rat - Inhalation DNA damage

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diphenylmethane-4,4- diisocyanate)

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

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

Reproductive toxicity: Reproductive toxicity - rat - Inhalation:

Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be fatal if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Cough, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.

Synergistic effects: no data available

Additional Information:

Section 12

ECOLOGICAL INFORMATION

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [30-50%]

Information on ecological effects

Toxicity:

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 24 h. and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Do not empty into drains.

no data available

Section 13

DISPOSAL CONSIDERATIONS

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

Section 14

TRANSPORT INFORMATION

DOT - Non DOT/non RCRA regulated

IATA/IMDG/ICAO - Not dangerous goods

Section 15

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

RQ(5000LBS), 4,4'-Methylenediphenyl diisocyanate (101-68-8) [30-50%] CERCLA, HAP, IARC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) [65-85%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

HAP = Hazardous Air Pollutants

IARC = IARC Carcinogen Risks

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

Section 16

OTHER INFORMATION

NFPA: Health = 2, Fire = 1, Reactivity = 1, Specific Hazard = None

HMIS III: Health = 2, Fire = 1, Physical Hazard = 1

HMIS PPE: X - Consult your supervisor for special instructions





Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Rapid Repair Part B

SAFETY DATA SHEET



Section 1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Duracorp

2664 Vista Pacific Dr. Oceanside, CA 92056

Emergency: CHEMTREC 800-424-9300 (24 HOUR SERVICE)

Section 2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Specific target organ toxicity - Single exposure, 3

Health, Acute toxicity, 4 Oral

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:



GHS Hazard Statements:

H336 - May cause drowsiness or dizziness

H302 - Harmful if swallowed

GHS Precautionary Statements:

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P330 - Rinse mouth.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Ingestion; Inhalation; Skin; Target Organs: Eyes; Skin; Respiratory system;

Inhalation: Heating, spraying, foaming or otherwise mechanically dispersing operations way generate vapor

or aerosol concentrations sufficient to cause irritation or other adverse effects. Minimal respiratory

tract irritation may occur with exposure to a large amount of material.

Skin Contact: Prolonged or repeated exposure can cause skin irritation or dermatitis in some individuals.

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Eye Contact: May cause watering of the eye and irritation of the conjunctiva.

Ingestion: May cause nausea or vomiting.

Section 3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	<u></u> %	Chemical Name
0 31568-06-6 102-60-3	85-95% 5-25% 0-5%	Proprietary polyol blend Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane 2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis-

Section 4 FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be

administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Skin Contact: Remove all contaminated clothing and shoes. Wash skin with large quantities of water and soap. Wash

clothing before wearing again and clean shoes. If redness, itching or a burning sensation develops or

persists after the area is washed, consult a physician.

Eye Contact: Flush with large amounts of water for 15 minutes. Use fingers to assure that the eyelids are separated and

that the eye is being irrigated. Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. This material is an

aspiration hazard. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5 FIRE FIGHTING MEASURES

Flash Point: >200°F
Flash Point Method: COC

Dry powder, foam, carbon dioxide. Use cold water spray to cool fire exposed containers to minimize risk of rupture. A solid stream of water directed into hot burning liquid could cause frothing. If possible, contain fire run off.

Section 6 ACCIDENTAL RELEASE MEASURES

Spill: Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear chemical goggles, rubber or plastic gloves and clothing as required to protect against contact. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

Clean up: With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. Ventilate area to remove the remaining vapors.

Section 7 HANDLING AND STORAGE

Handling Precautions: Do not smoke or use naked lights, open flames, space heaters or other ignition sources near

pouring, frothing or spraying operations. If contamination with isocyantes is suspected, do not reseal containers. Special Emphasis for spray applications of mixed products containing isocyanates: Inspect the application area for potential to expose other persons or for overspray to drift onto buildings, vehicles or other property. When spraying building exteriors,

persons entering or exiting the building as well as those inside could be exposed to

polyisocyanates due to wind conditions, open windows or air intakes. Do not begin application

work until these potential problems have been corrected.

Storage Requirements: When stored between 60°-85° F in sealed containers, typical shelf life is 6 months or more

from the date of manufacture. Open containers must be handled properly to prevent moisture

pickup.

Section 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Uses requiring heating and/or spraying may require more agressive engineering controls or PPE.

Personal Protective Equipment:

HMIS PP, X | Consult your supervisor for special instructions

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 120 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Proprietary polyol blend cas#:(0) [85-95%]

Contains no substance with occupational exposure limits

Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane cas#:(31568-06-6) [5-25%]

Contains no substance with occupational exposure limits

2-Propanol, 1,1',1",1"'-(1,2-ethanediyldinitrilo)tetrakis- cas#:(102-60-3) [0-5%]

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Non-Pigmented liquid.

Physical State:LiquidOdor:MildSpec Grav./Density:8.66 lbs/galFlash Point:>200°FBoiling Point:>500°FVapor Density:>1

Flammability: None Flammable

Evap. Rate: <1

Section 10 STABILITY AND REACTIVITY

Reactivity: No specific data

Chemical Stability: Product is stable under normal conditions.

Conditions to Avoid: No specific data Materials to Avoid: No specific data

Hazardous Decomposition: Under normal storage conditions hazardous decomposition products should not be produced.

Hazardous Polymerization: Will not occur.

Section 11 TOXICOLOGICAL INFORMATION

Proprietary polyol blend cas#:(0) [85-95%]

Finished product has not been tested.

Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane cas#:(31568-06-6) [5-25%]

Finished product has not been tested.

2-Propanol, 1,1',1"'-(1,2-ethanediyldinitrilo)tetrakis- cas#:(102-60-3) [0-5%]

Information on toxicological effects

Acute toxicity:
Oral LD50 no data available
Inhalation LC50
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: May cause allergic skin reaction.

Germ cell mutagenicity: no data available

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 a 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.

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

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Synergistic effects: no data available

Additional Information:

RTECS: UB5604000

Section 12

ECOLOGICAL INFORMATION

2-Propanol, 1,1',1",1"'-(1,2-ethanediyldinitrilo)tetrakis- cas#:(102-60-3) [0-5%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Section 13

DISPOSAL CONSIDERATIONS

Disposal: Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state or local requirements for proper classification information.

Section 14

TRANSPORT INFORMATION

DOT - Non DOT/Non RCRA regulated

Section 15 **REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Ethanol, 2-[(2-aminoethyl)amino]-, polymer with methyloxirane (31568-06-6) [5-25%] TSCA

2-Propanol, 1,1',1",1"'-(1,2-ethanediyldinitrilo)tetrakis- (102-60-3) [0-5%] TSCA

Regulatory CODE Descriptions

IARC = IARC Carcinogen Risks
TSCA = Toxic Substances Control Act

Section 16 OTHER INFORMATION

NFPA: Health = 1, Fire = 1, Reactivity = 0, Specific Hazard = None

HMIS III: Health = 1, Fire = 1, Physical Hazard = 0

HMIS PPE: X - Consult your supervisor for special instructions





Disclaimer:

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