Alpha Liner PART A CLEAR

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Simmons Industries, Inc.
1001 US Hwy 183
Liberty Hill, Texas 78642

Phone: 512-990-8808
Web: www.bedliner.com
Emergency: INFOTRAC 800-535-5053 (24 HOUR SERVICE)

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Respiratory or skin sensitization, 1 Respiratory
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Acute, 2
Health, Acute toxicity, 4 Oral
Health, Specific target organ toxicity - Repeated exposure, 1
Physical, Flammable Liquids, 2
Health, Reproductive toxicity, 2
Health, Aspiration hazard, 1
Health, Respiratory or skin sensitization, 1 Skin
Health, Carcinogenicity, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H401 - Toxic to aquatic life
H302 - Harmful if swallowed
H372 - Causes damage to organs through prolonged or repeated exposure.
H225 - Highly flammable liquid and vapor
H361 - Suspected of damaging fertility or the unborn child.
H304 - May be fatal if swallowed and enters airways
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer.

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe 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.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 - Wear respiratory protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 - IF INHALED: Remove victim 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. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
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 dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/ container to an approved waste disposal plant.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:

CAS#	%	Chemical Name:
4098-71-9	10-30%	Isophorone diisocyanate
111-46-6	0-5%	Diethylene glycol
108-88-3	10-30%	Toluene
101-68-8	0-4%	4,4'-Methylenediphenyl diisocyanate
26447-40-5	0-4%	Methylenediphenyl diisocyanate
141-78-6	0-20%	Ethyl acetate

4 FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing dificulty persists.

Skin Contact: Immediately rinse with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Gently wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Obtain medical attention if irritation develops or persists.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, powder, carbon dioxide, water spray.
Unsuitable extinguishing media: Use of heavy stream of water may spread fire.

Flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Under conditions of fire, this material may produce carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide. Product is not explosive, however formation of explosive air-vapor mixture is possible.

Exercise caution when fighting any chemical fire. Do not breathe fumes from fires or vapors from decomposition. Do not use a solid water stream as it may scatter and spread fire. Exercise caution when fighting any chemical fire. Remove containers from fire area if this can be done without risk. Wear full fire-fighting turn-out gear and respiratory protection. Do not allow run-off

from firefighting to enter drains or water courses.

6 ACCIDENTAL RELEASE MEASURES

Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. During cleaning/processing wear suitable respiratory equipment. Wear suitable protective clothing, gloves, and eye/face protection. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate area. Evacuate unnecessary personnel. Eliminate ignition sources. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb and/or contain spill with inert material, then place in suitable container. Small quantities of liquid spill; take up in non-combustible absorbent material and shovel into container for disposal. Eliminate all ignition sources. Use only non-sparking tools.

7 HANDLING AND STORAGE

Handling Precautions: Keep away from sources of ignition - no smoking. Keep away from heat and open flame. Avoid all eye and skin contact and do not breathe vapor or mist. Always wash hands after handling. Do not eat, drink, or smoke when using this product. Ensure there is adequate ventilation. Wear recommended personal protective equpiment. Take precautionary measures against statis discharge. Use grounded electrical/mechanical equipment.

Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Always wash your hands immediately after handling this product and once again before leaving the workplace.

Storage Requirements: Store in original container. Store in a dry, cool place. Store in a well ventilated place. Keep container tightly closed. Protect from moisture. Protect from heat and direct sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Isophorone diisocyanate cas#:(4098-71-9) [10-30%]

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 protection: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 110 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 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: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Diethylene glycol cas#:(111-46-6) [0-5%]

Personal protective equipment

Eye/face 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 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.

Full contact: Material: Nature latex/chloroprene Minimum layer thickness: 0.6 mm Break through time: 480 min Material tested:Lapren (KCL 706 / Aldrich Z677558, 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.

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.

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).

Control of environmental exposure: Do not let product enter drains.

Toluene cas#:(108-88-3) [10-30%]

Personal protective equipment

Eye/face 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 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.

Full contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject (KCL 890 / Aldrich Z677698, Size M)

Splash contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject (KCL 890 / Aldrich Z677698, 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.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-4%]

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.

Ethyl acetate cas#:(141-78-6) [0-20%]

Personal protective equipment

Eye/face 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 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: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 113 min Material tested:Butoject (KCL 897 / Aldrich Z677647, 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.

Body Protection: impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Isophorone diisocyanate cas#:(4098-71-9) [10-30%]

Components with workplace control parameters

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

TWA 0.0050 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
Skin notation

STEL 0.02 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
Skin notation

TWA 0.0050 ppm USA. NIOSH Recommended Exposure Limits
0.045 mg/m3
Potential for dermal absorption

ST 0.02 ppm USA. NIOSH Recommended Exposure Limits
0.18 mg/m3
Potential for dermal absorption

Diethylene glycol cas#:(111-46-6) [0-5%]

Components with workplace control parameters

TWA 10 mg/m3 USA. Workplace Environmental Exposure Levels (WEEL)

Toluene cas#:(108-88-3) [10-30%]

Components with workplace control parameters

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for
375 mg/m3 Air Contaminants - 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for
560 mg/m3 Air Contaminants - 1910.1000

TWA 200 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)
Visual impairment
Female reproductive
Pregnancy loss
2010 Adoption
Substances for which there is a Biological Exposure Index or Indices (see BEI section)
Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended
375 mg/m3 Exposure Limits

ST	150 ppm 560 mg/m3	USA. NIOSH Recommended Exposure Limits

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-4%]

Components with workplace control parameters

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

Respiratory sensitization

C	0.02 ppm 0.2 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

C	0.02 ppm 0.2 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants

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

TWA	0.0050 ppm 0.05 mg/m3	USA. NIOSH Recommended Exposure Limits

10 minute ceiling value

C	0.2 ppm 0.2 mg/m3	USA. NIOSH Recommended Exposure Limits

10 minute ceiling value

Ethyl acetate cas#:(141-78-6) [0-20%]

Components with workplace control parameters

TWA	400 ppm	USA. ACGIH Threshold Limit Values (TLV)

Eye & Upper Respiratory Tract irritation

TWA	400 ppm 1,400 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA	400 ppm 1,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA	400 ppm 1,400 mg/m3	USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, semi-viscous		
Physical State:	Liquid	**Odor:**	Aromatic
Spec Grav./Density:	8.399 lb/gal (1.007 density)	**Flash Point:**	24.8F
		VOC:	382 g/L (both A and B components mixed)

10 STABILITY AND REACTIVITY

Reactivity:	Stable at ambient temperature and under normal conditions of use.
Chemical Stability:	Stable at standard temperature and pressure
Conditions to Avoid:	High temperatures and sources of ignition
Materials to Avoid:	Strong bases and strong oxidizers
Hazardous Decomposition:	Under conditions of fire this material may produce- carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide
Hazardous Polymerization:	Will not occur

11 TOXICOLOGICAL INFORMATION

Isophorone diisocyanate cas#:(4098-71-9) [10-30%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - 4,825 mg/kg
Inhalation LC50 LC50 Inhalation - rat - 4 h - 123 mg/m3
Dermal LD50 no data available
Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: May cause allergic respiratory 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):
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: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: NQ9370000

Diethylene glycol cas#:(111-46-6) [0-5%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 12,565 mg/kg
Inhalation: no data available

LD50 Dermal - rabbit - 11,890 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation

Respiratory or skin sensitisation: no data available

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

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: ID5950000

Confusion., Dizziness, Kidney injury may occur., Unconsciousness, Convulsions, Pulmonary edema. Effects may be delayed., Nausea, Headache, Vomiting
Liver - Irregularities - Based on Human Evidence

Toluene cas#:(108-88-3) [10-30%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - > 5,580 mg/kg
LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m3
LD50 Dermal - rabbit - 12,196 mg/kg
no data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)
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: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count).
Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.
Stomach - Irregularities - Based on Human Evidence

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-4%]

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 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: 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:

RTECS: NQ9350000

Ethyl acetate cas#:(141-78-6) [0-20%]

Information on toxicological effects

Acute toxicity:
LD50 Oral - rat - 5,620 mg/kg
LC50 Inhalation - mouse - 2 h - 45,000 mg/m3
LD50 Dermal - rabbit - > 18,000 mg/kg
no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

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.

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

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: AH5425000

Central nervous system depression, Drowsiness, narcosis, anemia
Kidney - Irregularities - Based on Human Evidence

12 ECOLOGICAL INFORMATION

Isophorone diisocyanate cas#:(4098-71-9) [10-30%]

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

Diethylene glycol cas#:(111-46-6) [0-5%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 75,200 mg/l - 96 h.

LC50 - Carassius auratus (goldfish) - 5,000 mg/l - 24 h
Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 24 h.
other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Toluene cas#:(108-88-3) [10-30%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h.
NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d
Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h.
other aquatic invertebrates
Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h
Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h.
EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-4%]

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

Ethyl acetate cas#:(141-78-6) [0-20%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 350.00 - 600.00 mg/l - 96 h.
LC50 - Pimephales promelas (fathead minnow) - 220.00 - 250.00 mg/l - 96 h
Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h.
other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 560 mg/l - 48 h
Toxicity to algae EC50 - Algae - 4,300.00 mg/l - 24 h.
EC50 - SELENASTRUM - 1,800.00 - 3,200.00 mg/l - 72 h

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer.

Isophorone diisocyanate cas#:(4098-71-9) [10-30%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Diethylene glycol cas#:(111-46-6) [0-5%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Toluene cas#:(108-88-3) [10-30%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-4%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Ethyl acetate cas#:(141-78-6) [0-20%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

UN1263, Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base, 3, PG II

15 REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[10-30%] Isophorone diisocyanate (4098-71-9)

[0-5%] Diethylene glycol (111-46-6)

[10-30%] RQ(1000LBS), Toluene (108-88-3)

[0-4%] RQ(5000LBS), 4,4'-Methylenediphenyl diisocyanate (101-68-8)

[0-4%] Methylenediphenyl diisocyanate (26447-40-5)

[0-20%] Ethyl acetate (141-78-6)

WARNING This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

RQ = Reportable Quantity

16 OTHER INFORMATION

NFPA: Health = 3, Fire = 3, Reactivity = 1, Specific Hazard = None
HMIS III: Health = 3, Fire = 3, Physical Hazard = 1
HMIS PPE: X - Consult your supervisor for special instructions