

PRIMER 460-SPX PART A

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Simmons Industries, Inc.
1007 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):

- Physical, Flammable Liquids, 2
- Physical, Flammable Liquids, 4
- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 5 Oral
- Health, Acute toxicity, 4 Dermal
- Health, Acute toxicity, 5 Dermal
- Health, Skin corrosion/irritation, 1 B
- Health, Skin corrosion/irritation, 2
- Health, Skin corrosion/irritation, 3
- Health, Respiratory or skin sensitization, 1 Skin
- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Serious Eye Damage/Eye Irritation, 2 B
- Health, Respiratory or skin sensitization, 1 Respiratory
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Carcinogenicity, 2
- Environmental, Hazards to the aquatic environment - Acute, 3
- Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

- H225 - Highly flammable liquid and vapor
- H227 - Combustible liquid
- H302 - Harmful if swallowed
- H303 - May be harmful if swallowed
- H312 - Harmful in contact with skin
- H313 - May be harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H316 - Causes mild skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H320 - Causes eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H402 - Harmful to aquatic life
H412 - Harmful to aquatic life with long lasting effects

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.
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.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 - Wear respiratory protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P330 - Rinse mouth.
P363 - Wash contaminated clothing 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.
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:
540-88-5	40-60%	tert-Butyl acetate
584-84-9	<1%	Benzene, 2,4-diisocyanato-1-methyl
26447-40-5	0-9%	Benzene, 1,1'-methylenebis[isocyanato-
101-68-8	0-6%	4,4'-Methylenediphenyl diisocyanate
68092-58-0	0-6%	Propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] and oxybis[propanol]
91-08-7	<1%	2,4-Toluene diisocyanate
24801-88-5	0-4%	Silane, triethoxy(3-isocyanatopropyl)-

4 FIRST AID MEASURES

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in position comfortable for breathing. Call a Poison Center/doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue rinsing.

Ingestion: Rinse mouth. Do not induce vomiting.

5 FIRE FIGHTING MEASURES

Use dry chemical power, alcohol-resistant foam, carbon dioxide. Do not use extinguishing media containing water.

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including

respiratory protection. Do not allow run-off from firefighting to enter drains or water courses.

6

ACCIDENTAL RELEASE MEASURES

Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Use appropriate personal protection equipment. Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Ventilate area. Prevent entry to sewers and public waters. Absorb and/or contain spill with inert material, then place in suitable container. Clear up spills immediately and dispose of waste safely.

7

HANDLING AND STORAGE

Handling Precautions:

Handle empty containers with care because residual vapors are flammable. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors/fumes. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and again when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.

Storage Requirements:

Store in a dry, cool, well-ventilated place. Keep container closed when not in use. Keep in fireproof place.

8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment:

tert-Butyl acetate cas#:(540-88-5) [40-60%]

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: > 30 min Material tested: Camatril (Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, 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, 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.

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

Benzene, 2,4-diisocyanato-1-methyl cas#:(584-84-9) [<1%]

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. Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: > 480 min Material tested: Butoject (Aldrich Z677647, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: > 30 min Material tested: Camatril (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: Tightly fitting safety goggles. Faceshield (8-inch minimum). 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) [0-6%]

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.

2,4-Toluene diisocyanate cas#:(91-08-7) [<1%]

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: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 240 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.

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

Silane, triethoxy(3-isocyanatopropyl)- cas#:(24801-88-5) [0-4%]

Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). 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: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 30 min Material tested:Dermatril P (KCL 743 / Aldrich Z677388, 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: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

tert-Butyl acetate cas#:(540-88-5) [40-60%]

Components with workplace control parameters

TWA 200 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation

TWA 200 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
950 mg/m3 1910.1000

TWA 200 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
950 mg/m3 Limits for Air Contaminants
The value in mg/m3 is approximate.

TWA 200 ppm USA. NIOSH Recommended Exposure Limits
950 mg/m3

Benzene, 2,4-diisocyanato-1-methyl cas#:(584-84-9) [<1%]

Components with workplace control parameters
Potential Occupational Carcinogen See Appendix A

TWA 0.0050 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye irritation Asthma Respiratory sensitization Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen Sensitizer

STEL 0.02 ppm USA. ACGIH Threshold Limit Values (TLV)
Eye irritation Asthma Respiratory sensitization Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen Sensitizer

C 0.02 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
0.14 mg/m3 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 USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
0.04 mg/m3 1910.1000

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

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-6%]

Components with workplace control parameters

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

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

C 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 samples.

TWA 0.0050 ppm USA. NIOSH Recommended Exposure Limits
0.05 mg/m3
10 minute ceiling value

C 0.2 ppm USA. NIOSH Recommended Exposure Limits
0.2 mg/m3
10 minute ceiling value

2,4-Toluene diisocyanate cas#:(91-08-7) [<1%]

Components with workplace control parameters

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

Eye irritation

Asthma

Respiratory sensitization

Adopted values or notations enclosed are those for which changes are proposed in the NIC

See Notice of Intended Changes (NIC)

Not classifiable as a human carcinogen

Sensitizer

STEL 0.02 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye irritation

Asthma

Respiratory sensitization

Adopted values or notations enclosed are those for which changes are proposed in the NIC

See Notice of Intended Changes (NIC)

Not classifiable as a human carcinogen

Sensitizer

Silane, triethoxy(3-isocyanatopropyl)- cas#:(24801-88-5) [0-4%]

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance: Viscous

Physical State: Liquid

Flash Point: 44C (111.2F)

10	STABILITY AND REACTIVITY
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Reactivity: Isocyanates react slowly with water, alcohols, amines, and strong bases.

Chemical Stability: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Conditions to Avoid: Extremely high or low temperatures. Direct sunlight. Open flame, heat, sparks, and moisture.

Materials to Avoid: Strong bases, strong oxidizers, strong acids.

Hazardous Decomposition: Carbon oxides, nitrogen oxides, isocyanates. May release flammable gases.

Hazardous Polymerization: Will not occur

tert-Butyl acetate cas#:(540-88-5) [40-60%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 4,100 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.

Inhalation LC50 LC50 Inhalation - rat - 4 h - > 2,230 mg/m3

Dermal LD50 LD50 Dermal - rabbit - > 2,000 mg/kg Remarks: Diarrhoea Kidney, Ureter, Bladder:Other changes.

Other information on acute toxicity no data available

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

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

Respiratory or skin sensitization: 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

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 Toxic 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.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: AF7400000

Benzene, 2,4-diisocyanato-1-methyl cas#:(584-84-9) [<1%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - male - 5,110 mg/kg

Inhalation LC50 LC50 Inhalation - rat - male and female - 1 h - 0.48 mg/l

Dermal LD50 LD50 Dermal - rabbit - male and female - > 9,400 mg/kg

Other information on acute toxicity no data available

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

Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation

Respiratory or skin sensitization: no data available

May cause allergic respiratory and skin reactions

Germ cell mutagenicity: Genotoxicity in vitro - mouse - lymphocyte

Genotoxicity in vitro - Hamster - ovary Sister chromatid exchange

Genotoxicity in vitro - Ames test - S. typhimurium - with or without metabolic activation - positive

Carcinogenicity:

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Toluene-2,4-di-isocyanate)

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. Aggravated Acts as a mild acetyl cholinesterase inhibitor. , Medical Condition

Signs and Symptoms of Exposure: Cough, Shortness of breath, Headache, Nausea, Vomiting

Synergistic effects: no data available

Additional Information:

RTECS: CZ6300000

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-6%]

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

2,4-Toluene diisocyanate cas#:(91-08-7) [<1%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - Bird (wild) - 100 mg/kg

Inhalation: Irritating to respiratory system.

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: Germ cell mutagenicity:

Hamster ovary Cytogenetic analysis

Sister chromatid exchange

Carcinogenicity:

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Toluene-2,4-di-isocyanate)

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 respiratory irritation.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: CZ6310000

Cough, Shortness of breath, Headache, Nausea, Vomiting
Stomach - Irregularities - Based on Human Evidence

Silane, triethoxy(3-isocyanatopropyl)- cas#:(24801-88-5) [0-4%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 707 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea.

Gastrointestinal:Other changes.

LC50 Inhalation - rat - 4 h - 360 mg/m3 Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis). Blood: Hemorrhage.

LD50 Dermal - rabbit - 1,260 mg/kg Remarks: Behavioral:Irritability. Lungs, Thorax, or Respiration:Acute pulmonary edema. Prolonged skin contact may cause skin irritation and/or dermatitis.

no data available

Skin corrosion/irritation: no data available

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

Respiratory or skin sensitisation: 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: VV6691000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea
Stomach - Irregularities - Based on Human Evidence

tert-Butyl acetate cas#:(540-88-5) [40-60%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 296 - 362 mg/l - 96 h.

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

Benzene, 2,4-diisocyanato-1-methyl cas#:(584-84-9) [<1%]

Information on ecological effects

Toxicity:

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 133 mg/l - 96 h.

Method: OECD Test Guideline 203

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - mg/l - 48 h.

and other aquatic Method: OECD Test Guideline 202 invertebrates

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 4,300 mg/l - 96 h.

Method: OECD Test Guideline 201

Toxicity to bacteria EC50 - Sludge Treatment - > 100 mg/l - 3 h.

Persistence and degradability: Biodegradability aerobic Biochemical oxygen demand Result: 0 % - Not biodegradable Remarks: 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.

Harmful to aquatic life.

4,4'-Methylenediphenyl diisocyanate cas#:(101-68-8) [0-6%]

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

2,4-Toluene diisocyanate cas#:(91-08-7) [<1%]

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

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. Harmful to aquatic life.

Silane, triethoxy(3-isocyanatopropyl)- cas#:(24801-88-5) [0-4%]

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

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

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DISPOSAL CONSIDERATIONS

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

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TRANSPORT INFORMATION

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

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

[40-60%] tert-Butyl acetate (540-88-5) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

[<1%] RQ(10LBS), Benzene, 2,4-diisocyanato-1-methyl (584-84-9) CERCLA, EHS302, HAP, MASS, NJEHS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

[0-9%] Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) TSCA

[0-6%] RQ(5000LBS), 4,4'-Methylenediphenyl diisocyanate (101-68-8) CERCLA, HAP, IARC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR

[0-6%] Propanol, [(1-methyl-1,2-ethanediy)bis(oxy)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] and oxybis[propanol] (68092-58-0) TSCA

[<1%] RQ(10LBS), 2,4-Toluene diisocyanate (91-08-7) CERCLA, EHS302, MASS, NJHS, PA, SARA313, TSCA, TXAIR

[0-4%] Silane, triethoxy(3-isocyanatopropyl)- (24801-88-5) TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

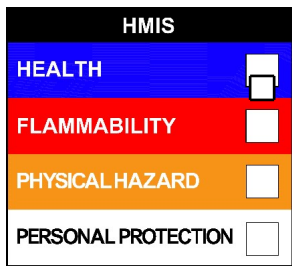
- RQ = Reportable Quantity
- CERCLA = Superfund clean up substance
- CSWHS = Clean Water Act Hazardous substances
- MASS = MA Massachusetts Hazardous Substances List
- OSHAWAC = OSHA Workplace Air Contaminants
- PA = PA Right-To-Know List of Hazardous Substances
- TSCA = Toxic Substances Control Act
- TXAIR = TX Air Contaminants with Health Effects Screening Level
- EHS302 = Extremely Hazardous Substance
- HAP = Hazardous Air Pollutants
- NJEHS = NJ Extraordinarily Hazardous Substances
- NJHS = NJ Right-to-Know Hazardous Substances
- NRC = Nationally Recognized Carcinogens
- SARA313 = SARA 313 Title III Toxic Chemicals
- IARC = IARC Carcinogen Risks

16	OTHER INFORMATION
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NFPA: Health = 3, Fire = 1, Reactivity = 1, Specific Hazard = None

HMIS III: Health = 3, Fire = 1, Physical Hazard = 1

HMIS PPE: X - Consult your supervisor for special instructions



Revision Date: 1/18/2021