

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: PROTECTHANE CATALYST

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PRODUCT CLASS: URETHANES

SUPPLIER:

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| ITEM | CHEMICAL NAME | CAS NUMBER | WEIGHT % |
|------|--------------------------------|------------|----------|
| 01 | BUTYL ACETATE | 123864 | 22.02 |
| 02 | SOLVENT NAPHTA, LIGHT AROMATIC | 64742966 | 5.28 |
| 03 | XYLENE | 1330207 | 4.98 |
| 04 | ACETIC ACID 2METHOXY 1METHYLET | 108656 | 1.76 |
| 05 | 1,2,4-TRIMETHYLBENZINE | 95636 | 1.58 |
| 06 | ETHYLBENZENE | 100414 | 1,18 |

SECTION 3 - HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, skin contact, eye contact, ingestion, depending on conditions of use. To minimize exposure, follow recommendations for proper use, handling, ventilation, and personal protective equipment.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None generally expected when recommendations for proper use, handling, ventilation, and personal protective equipment are followed.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, blurred vision, tearing of eyes, redness of eyes, severe eye irritation or burns, corneal injury.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Irritation of skin. Prolonged or repeated exposure can cause dermatitis, defatting, blistering, severe skin irritation. Possible sensitization to skin. Skin contact may result in dermal absorption of component(s) of that material which may cause drowsiness, dizziness and/or lightheadness.

SECTION 3 - HAZARDS IDENTIFICATION (Continued)

EFFECTS OF OVEREXPOSURE - INHALATION: Irritation of respiratory tract. Prolonged inhalation may lead to mucous membrane irritation, fatigue, drowsiness, dizziness and/or lightheadedness, headache, loss of coordination, nausea, vomiting, diarrhea, blurred vision, coughing, difficulty with speech, apathy, central nervous system depression, intoxication, anesthetic effect or narcosis, difficulty of breathing, allergic response, tremors, liver damage, kidney damage, pulmonary edema, pneumoconiosis, loss of consciousness, respiratory failure, asphyxiation, death. Possible sensitization to respiratory tract. Sanding dust inhalation may cause lung damage.

EFFECTS OF OVEREXPOSURE - INGESTION: Ingestion may cause lung inflammation and damage due to aspiration of material into lungs, mouth and throat irritation, drowsiness, dizziness and/or lightheadedness, headache, nausea, vomiting, diarrhea, gastro-intestinal disturbances, abdominal pain, apathy, central nervous system depression, intoxication, anesthetic effect or narcosis, liver damage, kidney damage, pulmonary edema, loss of consciousness.

Contains Ethylbenzene, a substance which has been classified as possibly carcinogenic to humans by IARC.

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes, especially under lids, with plenty of water for at least 15 minutes. Get medical attention if irritation or other effects persist.

FIRST AID - SKIN CONTACT: Flush immediately with plenty of water followed by washing with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. If irritation occurs, consult a physician.

FIRST AID - INHALATION: If affected, remove to fresh air. If breathing stops, give artificial respiration. Administer oxygen if available. Get immediate medical assistance.

FIRST AID - INGESTION: If swallowed, seek medical attention immediately.

CHRONIC INHALATION: To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC23C or equivalent) or leave the area. Do not breathe vapor or mist. Wear eye protection, gloves and protective clothing while mixing activator with enamel, during application and until all vapors and spray mist are exhausted.

SECTION 5 - FIRE FIGHTING MEASURES

OSHA FLAMMABILITY CLASS: 1B

FLASH POINT: 76.0 F

METHOD USED: SETAFLASH

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical, Water Fog

SECTION 5 - FIRE FIGHTING MEASURES (Continued)

USUAL FIRE AND EXPLOSION HAZARDS: Keep this product away from heat, sparks, flame and other sources of ignition. Keep containers closed when not in use. Closed containers may burst when exposed to extreme heat or fire. Toxic gases may form when product is exposed to extreme heat. Product may decompose under fire.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool and protect exposed containers. Use self-contained breathing apparatus. Water may be ineffective in extinguishing a paint fire. Stream of water may spread the flame. If water is used, fog nozzles are preferable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Ventilate area. Avoid breathing vapors. Use appropriate personal protective equipment. Use self-contained breathing apparatus if necessary. Contain spill and remove with inert absorbent. Use non-sparking tools. Use proper containers. Prevent material from entering sewers, natural ways or soil.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only with adequate ventilation. Use appropriate respiratory protection. Do not take internally. Keep out of reach of children. Avoid contact with skin and eyes. Avoid breathing of vapors, spray mist, or sanding dust. Empty containers may contain hazardous residues. Wash hands thoroughly after handling, especially before eating or smoking. If this product is part of a multiple component system, the resulting mixture may have the hazards of all of its parts.

STORAGE: Store in a cool, dry, and well-ventilated area. Keep away from heat, sparks, and open flame. Keep from freezing. Keep containers tightly closed and upright when not in use. Do not puncture or re-use containers. Transfer only to approved containers with complete and appropriate labeling. Containers should be grounded when pouring.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

| | <u>ACGIH TLV</u> | <u>ACGIH TLV-C</u> | <u>ACGIH STEL</u> | <u>OSHA STEL</u> | <u>OSHA PEL</u> |
|--------------------------|------------------|--------------------|-------------------|------------------|-----------------|
| HEXANE, 1,6-DIISOCYANATE | N/est | N/est | N/est | N/est | N/est |
| BUTYL ACETATE | 400.00 PPM | N/est | N/est | N/est | 400.00 PPM |

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION (Continued)

| | <u>ACGIH TLV</u> | <u>ACGIH TLV-C</u> | <u>ACGIH STEL</u> | <u>OSHA STEL</u> | <u>OSHA PEL</u> |
|--------------------------------|------------------|--------------------|-------------------|------------------|-----------------|
| CYCLOHEXANE, 5-ISOCYANATO-1 | N/est | N/est | N/est | N/est | N/est |
| SOLVENT NAPHTA, LIGHT AROMATIC | 100.00 PPM | N/est | N/est | N/est | N/est |
| XYLENE | 100.00 PPM | N/est | 150.00 PPM | 150.00 PPM | 100.00 PPM |
| ACETIC ACID 2METHOXY 1METHYLET | N/est | N/est | N/est | N/est | N/est |
| 1,2,4-TRIMETHYLBENZINE | N/est | N/est | N/est | N/est | N/est |
| ETHYLBENZENE | 100.00 PPM | N/est | 125.00 PPM | 125.00 PPM | 100.00 PPM |

VENTILATION: Provide dilution ventilation or local exhaust to maintain the level of vapors and dust below the applicable limits. Use only non-sparking explosion-proof equipment. Discharge exhaust only in area away from ignition sources.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation, wear an appropriate properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA (Canadian z94.4). When sanding or abrading a dried film, wear a dust/mist respirator approved by NIOSH/MSHA (Canadian z94.4) for dust which may be generated from this product, the underlying product, or the abrasive.

SKIN PROTECTION: Impervious gloves, impervious clothing, chemical resistant boots for spill clean up.

EYE PROTECTION: Splash goggles or safety glasses with side shields.

HYGIENIC PRACTICES: Wash clothing before reuse. Wash hands before eating, smoking, or using washroom.

GENERAL PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Product may contain substances classified as nuisance particulates that may be at hazardous levels only during sanding or abrading of the dried film.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|--|
| BOILING RANGE: | 171.0 F - 446.0 F (77.22.0 C - 230.0 C) |
| VAPOR PRESSURE RANGE (mmHg): | 0.5 @ 72.0F (22.220C) 73. @ 68.0F (20.0C) |
| EVAPORATION RATE: | Same as n-Buytl Acetate |
| VAPOR DENSITY: | Heavier than air |
| % VOLATILE WEIGHT | 44,16% |
| % VOLATILE BY VOLUME | 50,69% |
| SPECIFIC GRAVITY: | 1,01422 |
| VOC MAX LBS/GAL % GRMS/LTR | 3.77/452.01 |
| EXPLOSIVE RANGE: | 0,08% 11,50% |

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Elevated temperatures, contact with oxidizing agent, sparks, open flame, ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids, bases, amines, aluminum, reducing agents, aldehydes, hydrogen chloride, hypochlorites, peroxides, nitric acid, ammonia, vinyl polymers, metal compounds, phosphorous, hydrogen fluoride, magnesium, caustics, nitrates, hydrazine performic acid, bromine pentafluoride, water.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulfur, oxygen, hydrogen chloride, toxic gases, barium compounds.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

STABILITY: This product is stable.

SECTION 11 - TOXICOLOGICAL INFORMATION/PROPERTIES

TOXICOLOGICAL INFORMATION: No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Refer to local, county, state and federal storm water and air quality regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable local, county, state and federal regulations. Do not incinerate closed containers. If necessary, use only a licensed disposal firm/facility.

SECTION 14 - TRANSPORTATION INFORMATION

No transportation information is available.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: This MSDS complies with OSHA hazard communication standard 29 CFR 1910.1200.

SARA TITLE III SECTION 313 (40CFR372):

This product contains a substance(s) that may be subject to the reporting requirements.

| ITEM | CHEMICAL NAME | CAS NUMBER | WEIGHT % |
|-------------|------------------------|-------------------|-----------------|
| 01 | XYLENE | 1330207 | 4.98 |
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| 03 | ETHYLBENZENE | 100414 | 1,18 |

U.S. STATE REGULATIONS: AS FOLLOWS -

PENNSYLVANIA RIGHT-TO-KNOW: No information available.

CALIFORNIA PROPOSITION 65:

None known.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 17 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS:

RATINGS: Ratings are only suggested. The contractor/employer has the ultimate responsibility to evaluate the hazard that this product represents in the environment in which it is used.

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

RATING SYSTEM: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

GENERAL PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Product may contain substances classified as nuisance particulates that may be at hazardous levels only during sanding or abrading of the dried film.

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

SECTION 17 - USER'S RESPONSIBILITY

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazard and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

As of the date of this MSDS, all of the components in this product are listed (or are otherwise exempt from listing) on the TSCA inventory.

The above information pertains to the products as currently formulated and is based on the information received from raw material suppliers and other sources. We believe, to the best of our knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

CEPA:

All substances in this product are on the Canadian Domestic Substance List.

SARA TITLE III SECTION 304 CERCLA (40CFR302.4):

This product contains a substance(s) subject to release notification.

(END OF MSDS)
