

MATERIAL SAFETY DATA SHEET
PREPARED BY: Environmental, Health and Safety Department
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER	U.S. COATINGS
ADDRESS	9200 Latty St. Louis, MO 63042
INFORMATION	314-522-9552
EMERGENCY	314-239-4703
TRADE NAME	UREGRIP CONVERTER # 1
PRODUCT CODE	UG3CAT3000

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1 HOMOPOLYMER OF HDI ALIPHATIC POLYISOCYANATE
Pct By Wt: 90.00

ACGIH TLV-TWA	0.5 MG/M3 (AS RECOMMENDED BY MANUFACTURER)		
ACGIH TLV-STEL/C	1.0 MG/M3 (AS RECOMMENDED BY MANUFACTURER)		
OSHA PEL-TWA	NE	OSHA PEL-STEL	NE
OSHA PEL-CEILING	NE	SKIN DESIGNATION	NE
ODOR THRESHOLD	NA	LD50 (INGESTION)	> 10 G/KG (ORAL/RAT)
LC50 (INHALATION)	137-1150 MG/M3 (4H, RATS)		
AUTOIGNITION TEMP.	NA	FLASH POINT	196 C / 385 F SETAFLASH
Other Limits:	IARC-NO NTP-NO OSHA-NO ACGIH-NO NIOSH-NO		

2 BUTYL ETHANOATE CAS# 123-86-4 N-BUTYL ACETATE
Pct By Wt: 10.00 Vapor Pressure: 6.300 MMHG @ 68F LEL: 1.7

ACGIH TLV-TWA	150 PPM (PROPOSED)	ACGIH TLV-STEL/C	200 PPM (PROPOSED)
OSHA PEL-TWA	150 PPM	OSHA PEL-STEL	200 PPM
OSHA PEL-CEILING	NE	SKIN DESIGNATION	NO
ODOR THRESHOLD	NA	LD50 (INGESTION)	14.0 G/KG (ORAL-RAT)
LC50 (INHALATION)	2000 PPM/4H (RAT)	AUTOIGNITION TEMP.	370 C / 698 F
FLASH POINT	26 C / 78 F		
Other Limits:	IARC-NO NTP-NO OSHA-NO ACGIH-NO NIOSH-NO		

This product contains no chemicals listed in the NTP Annual Report on Carcinogens, the IARC Monographs, listed by ACGIH, NIOSH or regulated as a carcinogen by OSHA.

IMPORTANT! This product may be blended with other products prior to use. Read all warnings and precautions on the MSDSs and labels of all products being blended as the combination may contain the hazards of each component.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: May cause moderate irritation, redness, tearing, and blurred vision. Liquid, aerosols and vapors are irritating and can cause pain, tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling that of fine dust in the eyes.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Isocyanates react with skin protein and moisture and can cause irritation which may include the following symptoms: reddening, swelling, rash, scaling or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INHALATION: Can cause nasal and respiratory tract irritation. Isocyanate vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lung) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchial spasm and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. Can cause CNS effects including fatigue, weakness, headache, dizziness, nausea, vomiting, unconsciousness, coma, respiratory failure and death. Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyperreactivity), skin allergies and eczema may be aggravated by exposure to this material.

INGESTION: Can cause irritation of the digestive tract, nausea, vomiting and diarrhea. May cause signs of nervous system depression including drowsiness, dizziness, loss of coordination, fatigue, headache, nausea and vomiting. May cause burns of the mouth, throat and stomach.

POTENTIAL CHRONIC HEALTH EFFECTS: - Prolonged and repeated breathing of vapors, spray mist and/or sanding dust over a period of years may cause diseases of the lungs. - As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which include: chest tightness, wheezing, cough, shortness of breath or asthmatic attack could be immediate or delayed up to several hours after exposure. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Chronic overexposure to isocyanates has also been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may be either temporary or permanent. - Prolonged contact with isocyanates can cause reddening, swelling rash, scaling, blistering, and in some cases, skin sensitization. Individuals who have skin sensitization can develop these symptoms from contact with liquid or vapors. - Chronic eye contact may result in corneal opacity (clouding of the eye surface). - Reports have associated repeated and prolonged occupational overexposure to solvents with brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

TARGET ORGANS: Overexposure to this material or its components has been suggested as a cause of the following effects in laboratory animals and/or humans, and may aggravate pre-existing disorders of these organs in humans:

- Blood disorders
- Brain damage
- Eye damage
- Kidney damage
- Liver abnormalities
- Lung damage
- Skin damage
- Respiratory system
- Central nervous system (CNS)

SECTION 4 - FIRST AID MEASURES

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids apart; seek medical attention.

IF ON SKIN: Remove contaminated clothing and flush contaminated skin with large amounts of water. If skin is damaged or if symptoms persist seek medical attention. Launder clothing before reuse.

IF INHALED: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If individual is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

IF SWALLOWED: DO NOT induce vomiting unless directed to do so by medical personnel. Aspiration of material into lungs can cause chemical pneumonitis which may be fatal. If individual is drowsy or unconscious, place on their side with head down. Seek medical attention. If possible, do not leave individual unattended. NOTE TO PHYSICIAN: Eyes:

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Do not incinerate closed containers.

SECTION 14 - TRANSPORT INFORMATION

DOT Hazard Class:	3	DOT Packing Group:	III
DOT Label:	Flammable Liquid	DOT Shipping Name:	Paint
DOT Placard:	Flammable	UN/NA Number:	1263

SECTION 15 - REGULATORY INFORMATION

FEDERAL REGULATIONS:

SARA 313 INFORMATION This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16 - OTHER INFORMATION

FOR INDUSTRIAL USE ONLY: This product is for use by professional, trained personnel using proper equipment, and is not intended for sale to, or use by, the general public.

WARRANTY: Any recommendation of U.S. Coatings contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, U.S. Coatings makes no warranty or representation with respect thereto. Use or application of any U.S. Coatings product is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Coatings.

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