

MATERIAL SAFETY DATA SHEET: UNLOADER ALUM CUTOFF WHL

Section I - General Information

(000000-000000- - 97610320)  
 Date of Issue: 5/4/2004 12:00:00 AM  
 Chemical Name & Synonyms: UNLOADER ALUMI CUTOFF WHL  
 N/A  
 Chemical Family: UNLOADER CUT OFF WHEEL  
 Manufacturer Name: Trust-X by Performance, Div of NCH Corp.  
 Manufacturer Address: P.O. Box 855326  
 Dallas, TX 75285-5326  
 Prepared By: a santago/Chemist  
 Product Code Number: 97610320  
 Emergency Phone Number: 800-424-8300

Section V - Health and Hazard Data

Unusual Fire and Explosion Hazards:  
 NONE.

Threshold Limit Value:  
 NOT ESTABLISHED FOR MIXTURE(SEE SECTION II)

Effects of Overexposure:

Acute: (Short Term Exposure)  
 EYES: DUST MAY CAUSE EYE IRRITATION. DUST PARTICLES MAY CAUSE ABRASIVE INJURY TO THE EYE SEEN AS STINGING, TEARING, REDNESS, OR SCRATCHING OF THE CORNEA. SKIN: EXCESSIVE CONTACT MAY CAUSE MECHANICAL IRRITATION SEEN AS ITCHING AND REDNESS. INHALATION: PROLONGED EXPOSURE TO ABRADING DUST MAY CAUSE UPPER RESPIRATORY PROBLEMS OR AGGRAVATE EXISTING PROBLEMS. THE DUST GENERATED DURING THE USE OF THIS PRODUCT IS CLASSIFIED BY OSHA AS INERT DUST OR NUISANCE DUST AND HAS THE SAME PULMONARY EFFECTS OF INERT DUST WITH SYMPTOMS THAT MAY INCLUDE SORENESS OF THE NOSE AND THROAT, COUGHING AND SNEEZING.

Chronic: (Long Term Exposure)  
 CHRONIC EXPOSURE TO ANY NUISANCE DUST MAY CAUSE RESPIRATORY PROBLEMS. TARGET ORGANS: RESPIRATORY TRACT  
 CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING RESPIRATORY PROBLEMS.

Primary Routes of Entry  
 Inhalation  Ingestion  Absorption

Emergency First Aid Procedures:

Inhalation:  
 REMOVE FROM AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

Eye Contact:  
 RINSE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Skin Contact:  
 WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

Ingestion:  
 GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION.

Notes to Physician:  
 INGESTION IS NOT A LIKELY ROUTE OF ENTRY. ALLOW A PHYSICIAN TO DETERMINE IF VOMITING OR EVACUATION OF THE STOMACH IS NECESSARY.

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:  
 IARC  NTP  OSHA  ACGH  Other

ALUMINUM OXIDE: SUSPECTED CARCINOGEN. ACGIH-NOT CLASSIFIED AS A HUMAN CARCINOGEN. INHALATION OF FINELY DIVIDED PARTICLES MAY CAUSE LUNG DAMAGE.  
 IFL-MUS LD50: 3600 MG/KG. 3  
 IHL-RAT LC50: 200MG/M3/5H/28W/1. 3

FORMALDEHYDE: NTP-LISTS FORMALDEHYDE GAS AS A REASONABLE ANTICIPATED TO BE HUMAN CARCINOGEN BASED ON LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS AND SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS. ACGIH-GROUP 2A, SUSPECTED HUMAN CARCINOGEN.  
 HUMAN SYSTEMIC EFFECT BY INHALATION: LACRIMATION, OLFACTORY CHANGES, AGGRESSION, AND PULMONARY CHANGES. A HUMAN SKIN AND EYE IRRITANT.  
 SKN-RAB 270 UJ/KG. 3  
 ORL-MUS LD50: 454 G/MG/34H. 3  
 IHL-MUS LD50: 203 MG/M3. 3

FURFURAL: ACGH- CONFIRMED ANIMAL CARCINOGEN. MODERATELY TOXIC BY INHALATION AND SKIN CONTACT. SKIN AND EYE IRRITANT.  
 EYE-RBT 100 MG/24H MOD. 3  
 SKN-RBT 20 MG/24H MLD. 3

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Hazard	TLV	PEL	STEL	CAS #
ALUMINUM OXIDE	10 MG/M3	5 MG/M3	N/A	1344-28-1
HEXAMETHYLENETETRAMINE	NOT EST.	NOT EST.	N/A	100-97-0
FIBROUS GLASS	NOT EST.	NOT EST.	N/A	N/A
POTASSIUM ALUMINUM FLUORIDE	2.5 MG/M3	2.5 MG/M3	N/A	60304-36-1
FORMALDEHYDE	3 PPM	5 PPM	N/A	98-01-1
FURFURAL	2 MG/M3	5 MG/M3	N/A	1305-78-5
CALCIUM OXIDE				

Section III - Physical Data

Burning Point (°F): N/A  
 Boiling Point (°F): N/A  
 Vapor Pressure (mm Hg): N/A  
 Vapor Density (Air=1): N/A  
 pH @ 100% : N/A  
 % Volatile by Volume: 0%  
 H<sub>2</sub>O Solubility: NEGLIGIBLE  
 Specific Gravity (H<sub>2</sub>O=1): 1.00  
 Color: DARK BROWN  
 Odor: ODORLESS  
 Clarity: OPAQUE  
 Evaporation Rate (BuAc=1): N/A  
 Viscosity: SOLID

Section IV - Fire and Explosion Hazard

Flash Point: NON-FLAM  
 Flammable Limits: N/A  
 LEL: N/A  
 Method Used:  
 Aerosol Level (NFPA 30B): N/A  
 NFPA 704 Hazard Rating:  
 4-Extreme Health: 1  
 3-High Flammability: 0  
 2-Moderate Instability: 0  
 1-Slight  
 0-Insignificant Special:  
 Extinguishing Media:  
 Foam  Alcohol Foam  CO2  
 Dry Chemical  Water Spray  Other

Special Fire Fighting Procedures:  
 THIS MATERIAL IS NON-FLAMMABLE. USE APPROPRIATE MEDIA FOR SURROUNDING MATERIAL AS WITH ALL CHEMICAL FIRES. THE USE OF PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

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ORL-RAT LD50: 65 MG/KG .3  
 ORL-MUS 400 MG/KG .3  
 IHL-RAT LC50: 175 PPM/6H LUNGS, THORAX, OR RESPIRATION

**Section VII - Reactivity Data**

Stability:  Stable  Unstable  Will not occur  May occur

Conditions to Avoid: NONE KNOWN

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Hazardous Polymerization:  Will not occur  May occur

Incompatibility (Materials to Avoid):  
 AVOID ACIDS OF ALL TYPES ESPECIALLY WITH PH < 4.0

Hazardous Decomposition Products:  
 IN USE, DUST AND DECOMPOSING ODORS MAY BE GENERATED. IN MOST CASES, THE MATERIALS REMOVED FROM THE WORK PIECE WILL BE SIGNIFICANTLY GREATER THAN THE CUT OFF WHEEL COMPONENTS. FOR PRODUCTS CONTAINING PHENOL AND FORMALDEHYDE RESIN, THERMAL DECOMPOSITION MAY PRODUCE TRACE AMOUNTS OF PHENOL AND FORMALDEHYDE.

**Section VIII - Spill Or Leak Procedures**

Steps to be Taken if Material is Released or Spilled:  
 IF SPILLED, PICK UP WITH VACUUM OR SWEEP AND PLACE RECOVERED MATERIAL IN A PROPER CONTAINER FOR DISPOSAL. MINIMIZE GENERATION OF DUST.

Waste Disposal Method(s):  
 DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS

Neutralizing Agent:  
 N/A

**Section IX - Special Protection Information**

Required Ventilation:  
 USE LOCAL EXHAUST VENTILATION OR GENERAL VENTILATION AS REQUIRED. MINIMIZE EXPOSURE TO DUST AND ENSURE EXPOSURE TO DUST LEVELS DOES NOT EXCEED TLVs. LOCAL EXHAUSTS VENTILATION IS PREFERRED BECAUSE IT PREVENTS CONTAMINANTS DISPERSION INTO THE WORK AREA BY CONTROLLING IT AT THE SOURCE. (OSHA 29 CFR 1910.94 VENTILATION)

Respiratory Protection:  
 WEAR A MSHA/NIOSH APPROVED RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED OR WHERE DUST EXPOSURE ARE EXCESSIVE. SELECTION OF RESPIRATORY PROTECTION DEPENDS ON THE CONTAMINANT TYPE, FORM AND CONCENTRATION. SELECT AND USE RESPIRATORS IN ACCORDANCE TO OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND ANSIS STANDARD FOR RESPIRATORY PROTECTION (Z89.2-1992).

Glove Protection:  
 LEATHER, CLOTH OR RUBBER/VINYL

Eye Protection:  
 SAFETY GOGGLES OR FULL FACE SHIELD SHOULD BE WORN. OSHA 29 CFR 1910.133

Other Protection:  
 HEARING PROTECTION MAY BE REQUIRED FOR GRINDING OPERATIONS, AS NEEDED HEARING PROTECTION, OSHA 29 CFR 1910.135 (HEARING PROTECTION)

**Section X - Storage and Handling Information**

Storage Temperature: Max: 125°F Min: N/A

Storage Conditions:  Indoors  Outdoors  Heated  Refrigerated

Precautions to be Taken in Handling and Storing:  
 STORE IN A DRY AREA AWAY FROM HUMIDITY, FROM SOLVENT CONTACT AND ON A STURDY FLAT SURFACE TO PREVENT THE WHEELS FROM BOWING. HANDLE CAREFULLY. AVOID DROPPING OR IMPACT; SERIOUS BODILY INJURY CAN RESULT FROM PRODUCT BREAK UP AND SEPARATION. STORE IN ACCORDANCE WITH ANSI B7.1. REFER TO ANSI B7.1 REGARDING: \* SAFETY REQUIREMENTS FOR THE USE, CARE, AND PROTECTION OF ABRASIVE WHEELS.\*

Other Precautions:  
 READ ENTIRE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN.

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**Section XI - Regulatory Information**

Chemical Name	CAS Number	Upper % Limit
ALUMINUM OXIDE	1344-28-1	75
FORMALDEHYDE	50-00-0	25
FURFURAL	98-01-1	25

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

**Section XII - References**

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES. ACGIH, 2004.
2. OSHA PEL 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES. CONFWEB, 2004. ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING. - IRRITANT, FLAMMABLE, COMBUSTIBLE, CORROSIVE CARCINOGENIC, TOXIC, VIA NOT APPLICABLE, NEARLY ESTABLISHED, COC-LEVEL AND OPEN CUP, PMCC-PENSKY-MARTIN CLOSED CUP, TCC-TAGLIABUE CLOSED CUP, LEL-LOWER EXPLOSION LIMIT, UEL-UPPER EXPLOSION LIMIT, NFPA-NATIONAL FIRE PROTECTION ASSOCIATION, IARC-INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP-NATIONAL TOXICOLOGY PROGRAM, OSHA-OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH-AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV-THRESHOLD LIMIT VALUE, PEL-PERMISSIBLE EXPOSURE LIMIT, STEL-SHORT-TERM EXPOSURE LIMIT, MLD-MILD, MOD-MODERATE, SEV-SEVERE, MUT-MUTAGENIC, ASPHYX-ASPHYXIAN, PNO3-PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT-STANDARD DRAIZE TEST, ORL-ORAL, IHL-INHALATION, HMN-HUMAN
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