

## 1. PRODUCT AND COMPANY IDENTIFICATION

**NAME: TAKE OFF**  
**USE: FLOOR STRIPPER**

**MSDS # 101512T**

US CHEMICAL, 316 HART STREET, WATERTOWN, WI 53094 USA  
 MEDICAL EMERGENCY #: 1-800-851-7145 EXT. 075 USA  
 SPILL EMERGENCY #: 1-800-424-9300 USA  
 PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)  
 INTERNET ADDRESS: [WWW.USCHEMICAL.COM](http://WWW.USCHEMICAL.COM)  
 REVIEWED 7-9-07 REVISED 7-9-07 SECTION REVISED: 1

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

DANGER. CORROSIVE TO EYES. CAUSES EYE AND SKIN BURNS.  
 HARMFUL OR FATAL IF SWALLOWED. TOXIC BY INGESTION.  
 CAN CAUSE LIVER, BLOOD AND KIDNEY DAMAGE.



**PRINCIPLE ROUTES OF EXPOSURE:** EYES, SKIN, INGESTION, INHALATION.

### POTENTIAL ACUTE HEALTH EFFECTS

**EYES:** CORROSIVE. CAUSES EYE BURNS. MAY CAUSE PERMANENT DAMAGE INCLUDING BLINDNESS WITHOUT IMMEDIATE FIRST AID TREATMENT.

**SKIN:** CORROSIVE. CAUSES SKIN BURNS. MAY CAUSE PERMANENT DAMAGE. HARMFUL CONTACT MAY NOT  
 CAUSE IMMEDIATE PAIN. SOLVENTS ABSORBED THROUGH THE SKIN CAN CAUSE LIVER, BLOOD AND KIDNEY DAMAGE.

**INHALATION:** CORROSIVE. INHALATION OF MISTS MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM.

**INGESTION:** CORROSIVE. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH. TOXIC BY INGESTION. CAN CAUSE LIVER, BLOOD AND KIDNEY DAMAGE.

**MEDICAL CONDITIONS AGGRAVATED:** NONE KNOWN.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
POTASSIUM HYDROXIDE	1310-58-3	3.0 – 7.0	SEE 11.0
MONOETHANOLAMINE	141-43-5	7.0 – 13.0	SEE 11.0
2-BUTOXYETHANOL	111-76-2	16.0	N.AV.
STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS: WATER/7732-18-5, 2-BUTOXYETHANOL/111-76-2, MONOETHANOLAMINE/141-43-5, POTASSIUM HYDROXIDE/1310-58-3, SODIUM 1-OCTANE SULFONATE/5324-84-5			

#### 4. FIRST AID MEASURES

Page 2 of 4

**EYES:** FLOOD WITH LUKEWARM (NOT HOT) WATER POURED FROM A LARGE GLASS 2 OR 3 INCHES FROM EYES. REMOVE CONTACTS. HAVE PATIENT BLINK AS MUCH AS POSSIBLE WHILE FLOODING THE EYES. CONTINUE FOR AT LEAST 15 MINUTES.

**SKIN:** REMOVE CONTAMINATED CLOTHES, FLOOD WITH WATER FOR 15 MINUTES.

**INHALATION:** MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF PATIENT IS NOT BREATHING.

**INGESTION:** DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER.

**ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-851-7145 EXT. 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.**

**NOTE TO PHYSICIAN:** CALL 1-800-851-7145 EXT. 075 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

#### 5. FIRE-FIGHTING MEASURES

**FLAMMABILITY:** COMBUSTIBLE

**FLASH POINT:** 158°F TCC

**PRODUCTS OF COMBUSTION:** SEE SECTION 10.

**SUITABLE EXTINGUISHING MEDIA:** FOR FIRES IN AREA, USE APPROPRIATE MEDIA.  
USE DRY CHEMICAL OR ALCOHOL FOAM.

**SPECIFIC HAZARDS:** A VAPOR ACCUMULATION MAY FLASH IF IGNITED.

**SPECIFIC METHODS:** SOLVENT FIRE-FIGHTING PROCEDURES MAY BE USED.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** CORROSIVE. PUT ON PERSONAL PROTECTIVE EQUIPMENT. SEE 8.

**SPILL RESPONSE:** EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED.

STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS.

AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP OR SCOOP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, RINSE AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

BE CAREFUL AS SPILLS ARE SLIPPERY. ELIMINATE ALL IGNITION SOURCES.

#### 7. HANDLING AND STORAGE

**HANDLING:** FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES.

AVOID INHALATION, INGESTION, AND CONTACT WITH SKIN, EYES AND CLOTHING.

DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. PRODUCT RESIDUE MAY REMAIN IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

**STORAGE:** ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F. KEEP AWAY FROM HEAT, SPARK AND FLAME. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Page 3 of 4

**EXPOSURE LIMITS:** POTASSIUM HYDROXIDE = 2 MG/M3 CEILING LIMIT (ACGIH)  
MONOETHANOLAMINE = 3 PPM TWA, 6 PPM STEL (ACGIH), 3 PPM TWA (OSHA)  
2-BUTOXYETHANOL = 20 PPM TWA (ACGIH), 50 PPM TWA-SKIN (OSHA)  
**ENGINEERING CONTROLS:** NONE REQUIRED. GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.

**PERSONAL PROTECTION**

**EYES:** SPLASH PROOF SAFETY GLASSES, SAFETY GOGGLES AND AN EYE WASH STATION.  
**HANDS:** CHEMICAL RESISTANT GLOVES: RUBBER OR NEOPRENE. LONG TYPE IF NEEDED.  
**RESPIRATORY:** IF MISTS/VAPORS ARE NOT CONTROLLED BY VENTILATION, WEAR SUITABLE RESPIRATOR.  
**FEET:** TYPICALLY NOT NEEDED. WEAR BOOTS DURING SPILL & WHEN EXPOSURE IS POSSIBLE.  
**BODY:** IF MAJOR EXPOSURE IS POSSIBLE, WEAR FULL-COVER PROTECTIVE CLOTHING.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>COLOR:</b> COLORLESS TO LIGHT YELLOW	<b>FLASH POINT:</b> 158°F TCC
<b>ODOR :</b> SOLVENT	<b>UEL:</b> N.AP.
<b>pH CONCENTRATE:</b> GREATER THAN 13.0 (BASIC)	<b>LEL:</b> N.AP.
<b>pH @ 2500 PPM SOLUTION:</b> N.AP.	<b>EVAPORATION RATE:</b> N.AP.
<b>pH @ USE DILUTION:</b> N.AP.	<b>ODOR THRESHOLD:</b> N.AP
<b>PHYSICAL STATE:</b> LIQUID	<b>VAPOR PRESSURE:</b> N.AP
<b>SPECIFIC GRAVITY:</b> 1.073	<b>VAPOR DENSITY:</b> N. AP.
<b>VISCOSITY:</b> NON-VISCOUS	<b>COEFF. OIL/WATER:</b> N.AP.
<b>BOILING POINT:</b> N.AP.	<b>WATER SOLUBILITY:</b> COMPLETE
<b>MELTING POINT:</b> N.AP.	<b>OTHER:</b> SLIGHTLY HAZY

**10. STABILITY AND REACTIVITY**

**STABLE:** YES  
**CONDITIONS TO AVOID:** AVOID TEMPERATURES BELOW 35°F.  
AVOID HEAT, SPARKS AND FLAME.

**MATERIALS TO AVOID:** AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT.  
AVOID ACIDS AND VARIOUS METALS (ALUMINUM, ZINC, TIN, BRASS OR BRONZE) WHICH CAN GENERATE FLAMMABLE HYDROGEN GAS. MIX ONLY WITH WATER.

**DECOMPOSITION PRODUCTS:** FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

**POSSIBILITY OF HAZARDOUS REACTIONS:** AVOID MIXING DIRECTLY WITH ACIDS.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS:** CORROSIVE. SEE SECTION 2.  
**CHRONIC EFFECTS:** NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.  
**LC50/LD50:** POTASSIUM HYDROXIDE 45%: 273 MG/KG ORAL-RAT LD50  
MONOETHANOLAMINE: 1720 MG/KG ORAL-RAT LD50  
**TARGET ORGANS:** EYES, SKIN, RESPIRATORY SYSTEM, BLOOD, LIVER, KIDNEYS.  
**OTHER TOXIC EFFECTS:** NONE KNOWN.

**12. ECOLOGICAL INFORMATION**

Page 4 of 4

NOT AVAILABLE.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS A CORROSIVE WASTE (RCRA CLASS D002). DISPOSE OF ACCORDING TO ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

**14. TRANSPORT INFORMATION**

**DOT/TDG:** CORROSIVE LIQUID, N.O.S. (CONTAINS MONOETHANOLAMINE, POTASSIUM HYDROXIDE), 8, UN1760, II

**DOT RQ:** N.A.P.

**DOT ERG #:** 154

**15. REGULATORY INFORMATION**

**EPA CERCLA RQ:** POTASSIUM HYDROXIDE = 1000 LBS

**EPA REGISTERED:** NO

**EPA %VOC:** 26.1

**OSHA HAZARDOUS:** YES

**PHOSPHORUS CONTENT:** SEE LABEL

**PROPOSITION 65:** N.A.P.

**SARA 311/312 HAZARDS:** ACUTE, FIRE

**SARA 313 CHEMICALS:** 2-BUTOXYETHANOL

**STATE RIGHT TO KNOW:** SEE SECTION 3 FOR CHEMICAL NAMES.

**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.

**WHMIS CLASS:** D-2B, B-3, E

**16. OTHER INFORMATION**

**NFPA RATING:** HEALTH-3/FLAMMABILITY-2/REACTIVITY-1/SPECIAL HAZARD-N.A.P.

**HMIS RATING:** HEALTH-3/FLAMMABILITY-2/REACTIVITY-1/PERSONAL PROTECTION-SEE 8.0

N.A.V. = NOT AVAILABLE    N.A.P. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

**NOTICE TO READER**

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