MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses. Click http://www.lookchem.com/cas-383/38304-91-5.html for suppliers of this product.

Composition/Information on Ingredient Cas: 38304-91-5

UV8200000 Code: Μ Name: MINOXIDIL

Other REC Limits: NONE RECOMMENDED **OSHA PEL:** NOT ESTABLISHED Code:

Μ **OSHA STEL:** Code:

Code: Μ

RTECS:

ACGIH TLV: NOT ESTABLISHED **Control Measures**

Code: Μ **ACGIHSTEL:**

Code: **Respiratory Protection:** NOT REQUIRED. Ventilation: LOCAL EXHAUST. **Protective Gloves:** NOT REQUIRED

Eye Protection: NOT REQUIRED. **Other Protective Equipment:**

Equipment NONE SPECIFIED BY MANUFACTURER. **Work Hygienic Practices:** WASH THOROUGHLY AFTER HANDLING. LAUNDER CONTAMIN CLOTHING BEFORE REUSE. **Supplemental Safety and Health:** THIS DRUG IS SUBJECT TO FDA LABELING REQUIREMENTS; THEREFORE, IT IS EXEMPT FROM THE LABELING

REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD, PER MSDS. Health Hazards Data LD50LC50Mixture:

ORAL LD50 RATS:1321MG/KG MINOXIDIL **Route Of Entry Inds - Inhalation:** Skin: YES

Ingestion:

YES

Carcinogenicity Inds - NTP: IARC: NO OSHA: NO **Health Hazards Acute And Chronic:** OVEREXPO TO MINOXIDIL MAY CAUSE IRRIT DERM & ALLERGIC CONTACT DERM. PROD CONTAINS ALCOHOL BASE WHICH WILL CAUSE BURNING & IRRIT TO EYES. SYSTEMIC OVEREXPO MAY CAUSE CARDIOVASCULAR EFFECTS ASSOC W/TACH YCARDIA (INCREASED HEART RATE) & FLUID RETENTION. 2 **Explanation Of Carcinogenicity:** PER MSDS:NO EVIDENCE FORE CARCI WAS DETECTED IN RATS/RABBITS WHEN MINOXIDIL WAS APPLIED TO SKIN FOR UP TO 1YR.

Signs And Symptions Of Overexposure: IRRIT DERMATITS, ALLERGIC CONTACT DERMATITIS. BURNING & IRRIT TO EYES. CARDIOVASCULAR EFFECTS ASSOCIATED W/TACHYCARDIA (INCREASED HEART RATE) & FLUID RETENTION. **Medical Cond Aggravated By Exposure:**

EXPO TO PROD IS CONTRAINDICATED IN PEOPLE W/HISTORY OF HYPERSENSITIVITY TO ANY INGRED IN PREPARATION OR IN PEOPLE W/HISTORY OF LIVER DISEASE. First Aid: EYES:FLUSH W/WATER FOR 15MINS. HOLD EYELIDS OPEN TO ASSURE COMPLETE CONTACT W/WATER. SKIN:WASH WITH SOAP & WATER. REMOVE CONTMAIN CLOTHING. INHAL: REMOVE FROM EXPOSURE. INGEST: CONTACT PHYSICIAN OR POIS ON CONTROL CENTER. **Spill Release Procedures:** PROVIDE VENTI/RESP/SKIN/EYE PROT TO PREVENT OVEREXPO.KEEP PRODUCT OUT OF DRAINS; PREVENT ENTRY TO SURFACE

WATER/GROUNDWATER/SOIL.SM SPILLS:ABSORB W/PAPER TOWELS/OTHER APPROPRIATE MEDIA.LG SPILLS:VACUUM /SCOOP.PLACE IN SUITABLE CNTNR.REMOVE ALL IGN SOUR Neutralizing Agent: NOT APPLICABLE **Waste Disposal Methods:** DISPOSE OF BY INCINERATION IN ACCORDANCE WITH APPLICABLE INTERNATIONAL, NATIONAL, STATE, &/OR LOCAL WASTE DISPOSAL REGS.

Handling And Storage Precautions: KEEP AWAY FROM HEAT/SPARKS/FIRE.KEEP CNTNR CLSD.AVOID EYES/SKIN/CLOTH CONTACT.STORE IN COOL DRY PLACE & PROTECT FRM LIGHT.KEEP OUT OF REACH OF CHILDRE **Other Precautions:** USE: HUMAN DRUG USED FOR THE TREATMENT OF DIFFUSE THINNING OR HARI LOSS IN MALE & FEMALE. THIS DRUG IS SUBJECT TO FDA LABELING REOMTS THEREFORE EXEMPT FROM LABELING REOMTS OF OSHA HAZ COMM STD. NCA:000 9-3367-05/0009-3367-19. Fire and Explosion Hazard Information **Flash Point Method:** N/P

Flash Point:

Flash Point Text: 69.8F,21.0C

Autoignition Temp:

Other Information

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Other Information:N/P

Autoignition Temp Text: N/K **Lower Limits:** 3.3 ETHANOL **Upper Limits:** 19 ETHANOL **Extinguishing Media:** WATER, CARBON DIOXIDE OR DRY CHEMICAL. Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS & FULL-BODY PROTECTIVE EQUIPMENT. **Unusual Fire/Explosion Hazard:** NONE. 3 Physical/Chemical Properties HCC: F3 NRC/State LIC No: N/R **Net Prop WT For Ammo: Boiling Point: B.P. Text: 78C ETHANOL** Melt/Freeze Pt: M.P/F.P Text: UNKNOWN **Decomp Temp: Decomp Text: UNKNOWN Vapor Pres:** 0.8MM **Vapor Density:** 1.78 @20C **Volatile Org Content %: Spec Gravity:** 0.9-0.919 **VOC Pounds/Gallon:** PH: UNKNON **VOC Grams/Liter:** Viscosity: UNKNOWN **Evaporation Rate & Reference:** 3.3, REF NOT GIVEN Solubility in Water: UNKNOWN **Appearance and Odor:** CLEAR, COLORLESS TO LIGHT-YELLOW LIQUID IN 60ML BOTTLES. **Percent Volatiles by Volume:** 80 **Corrosion Rate:** N/K Reactivity Data **Stability Indicator:** YES **Stability Condition To Avoid:** FIRES, HOT SURFACES AND IGNITION SOURCES. **Materials To Avoid:** NONE. 4 **Hazardous Decomposition Products:** NITROGEN OXIDES, CARBON MONOXIDE AND CARBON DIOXIDE **Hazardous Polymerization Indicator: Conditions To Avoid Polymerization:** NOT APPLICABLE Toxicological Information Information:N/P **MSDS Transport Information** Information:N/P **Regulatory Information Sara Title III Information:** N/P **Federal Regulatory Information:** N/P **State Regulatory Information:** N/P

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

quarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.