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DOW AGROSCIENCES LLC -- PATHWAY HERBICIDE -- 6840-01-356-8510

Product ID:PATHWAY HERBICIDE MSDS Date:04/14/1999 FSC:6840 NIIN:01-356-8510 Status Code:A MSDS Number: CLMHM === Responsible Party === Company Name: DOW AGROSCIENCES LLC Address:9330 ZIONSVILLE ROAD Box:681428 **City:INDIANAPOLIS** State:IN ZIP:46268-1189 Country:US Info Phone Num:800-992-5994 **Emergency Pho** ne Num:800-992-5994 Preparer's Name:NOT PROVIDED CAGE:TO434 === Contractor Identification === Company Name: DOW AGROSCIENCES LLC Address:9330 ZIONSVILLE ROAD Box:681428 **City:INDIANAPOLIS** State:IN ZIP:46268-1189 Country:US Phone:800-992-5994 CAGE:TO434

Ingred Name:PICLORAM: (4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID),TRIISOPROPANOLAMINE SALT CAS:6753-47-5 RTECS #:US5606000 = Wt:5.4

Ingred Name:2,4-DICHLOROPHENOXYACETIC ACID, T

RIISOPROPANOLAMINE SALT CAS:32341-80-3 = Wt:20.9

Ingred Name:ETHYLENE GLYCOL CAS:107-21-1 RTECS #:KW2975000 Other REC Limits:NOT PROVIDED OSHA PEL:NOT PROVIDED ACGIH STEL:C127 MG/M3;C50 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:ISOPROPANOL CAS:67-63-0 RTECS #:NT8050000 Other REC Limits:NOT PROVIDED OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:TRIISOPROPANOLAMINE CAS:122-20-3 RTECS #:UB8750000 Other REC Limits:10 MG/M3 (MFR) OSHA PEL: NOT PROVIDED ACGIH TLV:NOT PROVIDED

Ingred Name:PROPRIETARY SURFACTANT Other REC Limits:10 MG/M3 (MFR) OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED

LD50 LC50 Mixture:LD50 (ORAL, RAT) > 5,000 MG/KG Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: MAY CAUSE MODERATE IRRITATION, WHICH MAY BE SLOW TO HEAL. MAY CAUSE SLIGHT CORNEAL INJURY. SKIN: PROLONGED/REPEATED EXPOSURE MAY CAU SE IRRITATION. NOT ABSORBED

THROUGH SKIN IN HARMFUL AMOUNTS. IN GESTION: TOXICITY FROM INGESTION MAY BE GREATER IN MAN THAN IN ANIMALS. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; HOWEVER, LARGER AMOUNTS MAY CAU SE SERIOUS INJURY, EVEN DEATH. MAY CAUSE CNS AND CARDIOPULMONARY EFFECTS. INHALATION: A SINGLE PROLONGED (HOURS) INHALATION EXPOSURE IS NOT LIKELY TO CAUSE ADVERSE EFFECTS. SYSTEMIC (OTHER TARGET ORGA N) EFF ECTS:

UPPER RESPIRATORY IRRITATION

Explanation of Carcinogenicity:PICLORAM DID NOT CAUSE CANCER IN LABORATORY ANIMALS.

Effects of Overexposure:EYE: MAY CAUSE MODERATE IRRITATION. SKIN: PROLONGED/REPEATED EXPOSURE MAY CAUSE IRRITATION. INGESTION: LARGE AMOUNTS MAY CAUSE SERIOUS INJURY, EVEN DEATH. MAY CAUSE CNS AND CARDIOPULMONARY EFFECTS.

Medical Cond Aggravated by Exposure:NOT PROVIDED

First Aid:EYES: IRR

IGATE WITH FLOWING WATER IMMEDIATELY AND CONTINOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL. SKIN: WASH OFF IN FLOWING WATER OR SHOWER. INGESTION: IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT MEDICAL PERSONNEL. INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

Flash Point Method:TCC Fl ash Point:=40.6C, 105.F Lower Limits:N/D Upper Limits:N/D Extinguishing Media:WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL. Fire Fighting Procedures:WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard:TOXIC, IRRITATING FUMES MAY BE PRODUCED IF PRODUCT IS INVOLVED IN FIRE. CONTAIN WATER FROM FIRE FIGHTING TO PREVENT ENTRY TO SURFACE OR GROUND WATER.

Spi

II Release Procedures: ABSORB SMALL SPILLS IN AN INERT MATERIAL SUCH AS CLAY, ZORBALL, OR KITTY LITTER. FOR LARGE SPILLS, CONTACT DOW AGROSCIENCES ON 1-800-992-5994. DIKE AREA TO CONTAIN WATER. Neutralizing Agent: NOT RELEVANT

Handling and Storage Precautions: KEEP OUT OF REACH OF CHILDREN. COMBUSTIBLE. KEEP PRODUCT AWAY FROM HEAT OR OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE IN ORIGINAL

CONTAINER. SEE PRODUCT LABEL FOR HANDLING/STORAG E PRECAUTIONS RELATIVE TO THE END USE OF THIS PRODUCT.

Other Precautions:HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. USERS SHOULD WASH HANDS BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET.

Respiratory Protection: AIRBORNE LEVELS SHOULD BE MAINTAINED BELOW THE

EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS, USE A NIOSH APPROVED AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Ventilation: PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE EXPOSURE GUIDELINES.

Protective Gloves: IMPERVIOUS TO THIS MATERIAL WHEN PROLONGED/FREQUENTLY REPEATED CONTACT OCCURS.

Eye Protection: USE CHEMICAL GOGGLES.

Other Protective Equipment: PLEASE REFER TO THE PRODUCT LABEL FOR PERSONAL

PROTECTIVE CLOTHING AND EQUIPMENT.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI

= GASTROI NTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

HCC:F4 NRC/State Lic Num:NOT RELEVANT Boiling Pt:>82.2C, 18 0.F Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:32 MMHG@20C Vapor Density:2(ALCOHOL) Spec Gravity:1.092@68/68F pH:NOT PROVIDED Viscosity:NOT PROVIDED Evaporation Rate & amp; Reference:NOT PROVIDED Solubility in Water:MISCIBLE Appearance and Odor:BLUE-GREEN LIQUID, ALCOHOL-LIKE ODOR Percent Volatiles by Volume:NOT PROVIDED Corrosion Rate:NOT PROVIDED

CONSULT DOW AGROSCIENCES FOR SPECI

FIC CASES.

Stability Condition to Avoid:COMBUSTIBLE. KEEP AWAY FROM HEAT AND OPEN FLAME. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. Hazardous Decomposition Products:HYDROGEN CHLORIDE AND OXIDES OF NITROGEN MAY BE FORMED IF PRODUCT IS INVOLVED IN FIRE.

Toxicological Information:THE LD50 FOR SKIN ABSORPTION IN RABBITS IS >3980 MG/KG. THE LC50 FOR RATS IS >1.85 MG/L FOR FOUR HOURS.

====== Ecologica

Ecological:BASED LARGELY OR COMPLETELY ON INFORMATION FOR PICLORAM. BIOCONCENTRATION POTENTIAL IS MODERATE (BCF BETWEEN 100 AND 3000 OR LOG POW BETWEEN 3 AND 5). POTENTIAL FOR MOBILITY IN SOIL IS VERY HIGH (KOC BETWEEN 0 AND 50). REMAINING COMPONENTS. BIOCONCENTRATION POTENTIAL IS LOW (BCF