MATERIAL SAFETY DATA SHEET

MCPA Amine

MANUFACTURER: Winfield Solutions, LLC
ADDRESS: P.O. BOX 64589 ST PAUL, MN. 55164-0589
EMERGENCY TELEPHONE NO. - CALL CHEMTREC, DAY OR NIGHT, 1-800-424-9300

SECTION I - HAZARDOUS INGREDIENTS IDENTITY AND INFORMATION

COMPONENTS

PEL

EXPOSURE GUIDELINE - Dow Industrial Hygiene Guide

ELIMINATION OF EXHAUSTS: Local exhaust required. PROTECTIVE CLOTHING OR EQUIPMENT: Long sleeved shirt and/or coveralls. WORK/HYGIENIC PRACTICES: Wash hands after handling and before eating or smoking. Do not eat or smoke in work area.

SECTION II -- PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Dark brown to black liquid, slight amine odor.

SECTION III -- FIRE AND EXPLOSION HAZARD DATA

STABILITY:

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Noxious fumes under fire conditions, hydrogen chloride.

HAZARDOUS POLYMERIZATION:

MAY OCCUR CONDITIONS TO AVOID:

WILL NOT OCCUR CONDITIONS TO AVOID:

SECTION IV -- REACTIVITY DATA - PROCESS AREAS

HAZARDOUS POLYMERIZATION:

STABILITY:

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Noxious fumes under fire conditions, hydrogen chloride.

HAZARDOUS POLYMERIZATION:

MAY OCCUR CONDITIONS TO AVOID:

WILL NOT OCCUR CONDITIONS TO AVOID:

SECTION V -- HEALTH HAZARD DATA

HEALTH HAZARDS: EYE: May cause severe irritation with corneal injury and may result in permanent impairment of vision, even blindness. SKIN CONTACT: Prolonged exposure may cause skin irritation. SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg. Repeated skin exposure may result in absorption of harmful amounts. INGESTION: Single dose oral toxicity is low. The LD50 for male rats is 1960 mg/kg and for females is 1700 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury. INHALATION: Single exposure to vapors is not likely to be hazardous. SYSTEMIC AND OTHER EFFECTS: Repeated excessive exposures may cause liver, kidney, blood, CNS and testicular effects. Has caused birth defects in laboratory animals only at doses toxic to the mother. In animal studies, has been shown to interfere with fertility in males. Has been shown to be negative in some in vitro ("test tube") mutagenicity tests and positive in others. Results of mutagenicity tests in animals have been inconclusive.

EMERGENCY AND FIRST AID PROCEDURES: EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel. SKIN: Wash off in flowing water or shower. Wash contaminated clothing before reuse. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. INGESTION: Induce vomiting if large amounts are ingested. Consult medical personnel. INHALATION: Remove to fresh air if effects occur. Consult medical personnel. NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

SECTION VI -- PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill in inert material such as sand or dirt. Dike area in case of large spill. Keep out of streams or domestic water supplies. For large spills, contact Dow Chemical at 517-636-4400. WASTE DISPOSAL METHOD: Dispose of in an approved in accordance with all local, State, and Federal regulations.

SECTION VII -- REGULATORY COMPLIANCE

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL ENVIRONMENTAL STATUTES:

REPORTABLE QUANTITY (RQ), EPA REGULATIONS 40 CFR 302 (CERCLA Section 102):

CHEMICAL - NA CAS # RQ

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPATIBILITY (MATERIALS TO AVOID): Base, oxidizing materials

STABILITY:

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Noxious fumes under fire conditions, hydrogen chloride.

HAZARDOUS POLYMERIZATION:

MAY OCCUR CONDITIONS TO AVOID:

WILL NOT OCCUR CONDITIONS TO AVOID:

Revision: The information herein was given in good faith but no warranty, expressed or implied was made. Consult Winfield Solutions, LLC for information.

NOTE: Product label will contain additional non-OSHA related information.

DATE: September 14, 2007 SUPERSEDES:

OSHA REQUIRED LABEL INFORMATION: In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment. NONE

DOT IDENTIFICATION: Not regulated

NA = NOT APPLICABLE NDA = NO DATA AVAILABLE

repeated contact could occur. EYE PROTECTION: Use chemical goggles. OTHER PRECAUTIONS: Keep out of reach of children. Do not get in eyes, on skin, or on clothing. Do not swallow. Washing facilities near work area. Do not store near fertilizer, seed, fungicide or insecticides. Do not contaminate irrigation ditches or water used for domestic purposes.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

VENTILATION: Good general ventilation sufficient for most conditions. RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, Use an approved air-purifying respirator. SKIN PROTECTION: Use impervious gloves when prolonged or frequently