

Material Safety Data Sheet

Product: 2,4-D Amine 860

IDENTIFICATION & DESCRIPTION

WHMIS STATUS: Controlled

WHMIS CLASS (ES): D2B

PHYSICAL STATE: Liquid

APPEARANCE & ODOUR: Brown, fishy odour

USES: Phenoxy (Broadleaf) Herbicide

SUPPLIER: Changzhou good-job Biochemical Co., Ltd

ADDRESS: Xinbei District, Changzhou, Jiangsu, China

PHYSICAL DATA

SPECIFIC GRAVITY: (@ 20°C): 1.18

VAPOUR DENSITY: Not Established

SOLUBILITY IN WATER: Miscible

SOLUBILITY IN LIQUIDS: Not Established

FREEZING POINT: (°C): - 3

% VOLATILE BY VOLUME: Not Applicable

BOILING POINT: (°C): 100

ODOUR THRESHOLD (ppm): Not Established

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Applicable

VAPOUR PRESSURE: Not Established

EVAPORATION RATE: Not Established

PH: 8.1 - 8.5

MIXTURE (Y/N): Yes

CONTROLLED PRODUCTS LIST

LD50-ORAL: 635 mg/kg Rat

LD50-DERMAL: > 2000 mg/kg Rabbit

T.L.V. (ACGIH): 10 mg/m³ (2,4-D acid)

LC50: Not Established

Non-Hazardous

C.A.S. #: Not Established

% (W/W): 10 - 30

LD50-ORAL: Not Established

LD50-DERMAL: Not Established

T.L.V. (ACGIH): Not Established

LC50: Not Established

(2,4-Dichlorophenoxy) acetic acid dimethylamine

C.A.S. #: 2008-39-1

% (W/W): 60 - 100

LD50-ORAL: 300 mg/kg Rat

LD50-DERMAL: Not Established

T.L.V. (ACGIH): 10 mg/m³ (2,4-D acid)

LC50: Not Established

FIRE & EXPLOSION DATA

FLASH POINT & METHOD: (°C): > 100 (Tag Closed Cup)

FLAMMABLE LIMITS (% IN AIR): Lower: Not Applicable Upper: Not Applicable

AUTOIGNITION TEMPERATURE: Not Applicable

UNUSUAL FIRE & EXPLOSION HAZARDS: Noxious fumes may be formed under fire conditions.

Contain water from fire fighting to prevent entry into water supplies.

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Water Fog, and Dry Chemical. (But not SODA)

DRY POWDER)

SPECIAL OXIDIZING MATERIAL HAZARDS: Not Established

HAZARDOUS COMBUSTION PRODUCTS: Noxious (HCl & Amines) fumes under fire conditions.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed containers or structures. Use self-contained breathing apparatus and protective clothing.

HAZARDOUS REACTIVITY

DECOMPOSITION TEMP: Not Established

STABILITY: Stable under normal conditions.

MATERIALS TO AVOID: Acids, oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride and nitrogen oxides may be formed

under fire conditions

HAZARDOUS POLYMERIZATION OR CONDENSATION: Will not occur.

CONDITIONS TO AVOID: Elevated temperatures, product may boil then burn.

TOXICOLOGICAL DATA

CHRONIC HEALTH HAZARDS: Excessive exposure may cause liver, kidney, gastrointestinal and muscle effects. Signs and symptoms of excessive exposure may be nausea, vomiting, abdominal cramps and diarrhea.

MUTAGENICITY DATA: No information is available and no adverse mutagenic effects are anticipated.

CARCINOGENICITY DATA: No information is available and no adverse carcinogenic effects are anticipated.

TERATOGENICITY DATA: No information is available and no adverse teratogenic effects are anticipated.

REPRODUCTIVE EFFECTS: No information is available and no adverse reproductive effects are anticipated.

SYNERGISTIC MATERIALS & ROUTES OF ENTRY: None known.

EFFECTS OF OVEREXPOSURE (INHALATION): A single exposure to vapors is not likely to be hazardous.

EFFECTS OF OVEREXPOSURE (EYES): May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness.

EFFECTS OF OVEREXPOSURE (SKIN): May cause skin irritation.

EFFECTS OF OVEREXPOSURE (INGESTION): Moderately toxic; May cause gastrointestinal irritation and ulceration

PREVENTATIVE MEASURES

STORAGE AND USE: Store in a cool, well-ventilated area. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides. Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

STEPS TO BE TAKEN IN THE EVENT OF A SPILL, LEAK, OR RELEASE: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

SPECIAL ENGINEERING CONTROLS: Local exhaust ventilation required.

WASTE DISPOSAL METHOD: Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste.

EYE PROTECTION: CSA approved safety glasses with side shields or goggles.

RESPIRATORY PROTECTION: No respiratory protection needed unless mist generated, then a NIOSH/MSHA toxic mist mask suggested.

SKIN PROTECTION (HAND AND ARM): PVC or rubber gloves.

SKIN PROTECTION (FEET): Rubber boots.

SKIN PROTECTION (BODY): Coveralls.

OTHER PERSONAL PROTECTION: Recommendations listed above indicate the type of equipment which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

FIRST AID DATA

FIRST AID (INHALATION): Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical attention IMMEDIATELY.

FIRST AID (INGESTION): If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

FIRST AID (SKIN): Flush skin with running water, and then continue flushing with running water for 5 - 10 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

FIRST AID (EMERGENCY MEDICAL CARE): Treatment based on judgment of the physician in response to reaction of the patient. There is no specific antidote.

FIRST AID (EYES): In case of contact, immediately flush eyes with plenty of water for 5 - 10 minutes and get medical attention.

OTHER INFORMATION

SPECIAL SHIPPING INFORMATION: Observe applicable shipping and handling regulations. See "Product Identification" for TDG classification.

ADDITIONAL INFORMATION: THE ENCLOSED INFORMATION IS SUPPLIED AS A CUSTOMER SERVICE AND IS PROVIDED IN GOOD FAITH. ALTHOUGH IT HAS BEEN BASED ON DATA DRAWN FROM SOURCES DEEMED TO BE RELIABLE, IPCO CANNOT GUARANTEE ITS ACCURACY AND ASSUMES NO RESPONSIBILITY FOR CONDITIONS RESULTING FROM ITS USE.

***** End of MSDS *****