
MANUFACTURER / EMERGENCY INFORMATION

HELENA CHEMICAL COMPANY
6075 POPLAR, SUITE 500
MEMPHIS, TN 38119

EMERGENCY TELEPHONE NUMBER:
1. (901) 761-0050
2. CHEMTREC (800) 424-9300

EFFECTIVE DATE: 06/30/96

I. IDENTIFICATION

CHEMICAL NAME	DIMETHYLAMINE SALT OF 2,4-D ACID
CHEMICAL FAMILY	CHLORINATED PHENOXY HERBICIDE
FORMULA	FORMULATED MIXTURE
SYNONYMS	2,4-D, DIMETHYLAMINE SALT
CAS NUMBER	SEE SECTION III, INGREDIENT STATEMENT.
EPA REGISTRY NO.	42750-13-5905

II. PHYSICAL DATA

BOILING POINT	230 DEGREES F.
FREEZING POINT	-3 DEGREES C.
SPECIFIC GRAVITY	1.157 GMS/CC
VAPOR PRESSURE	NA
VAPOR DENSITY	NA
SOLUBILITY IN WATER	MISCIBLE
PER CENT VOLATILES	47.1% WATER
EVAPORATION RATE	NA
MELTING POINT	NA
APPEARANCE & ODOR	BROWN/BLACK LIQUID, WITH PHENOLIC ODOR.

III. INGREDIENTS

.....MATERIAL.....	...%..	...TLV(UNITS)..HAZARD.....
DIMETHYLAMINE SALT OF 2,4-DICHLOROPHENOXYACETIC ACID	46.80	10 MG/M3	SKIN & EYE IRRITANT
INERT INGREDIENTS, (WATER & SEQUESTERING AGENTS)	53.20	NA	NA
PRODUCT	CAS NUMBER		
2,4-D ACETIC ACID	0094-75-7		
DIMETHYLAMINE SALT	2008-39-1		

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	:	AQUEOUS PRODUCT
AUTOIGNITION TEMPERATURE:	:	NOTE APPLICABLE
FLAMMABLE LIMITS	:	NOT APPLICABLE

EXTINGUISHING MEDIA:

- ALCOHOL FOAM, DRY CHEMICAL AND CARBON DIOXIDE EXTINGUISHING MEDIA.

SPECIAL FIRE FIGHTING PROCEDURES:

- WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. DIKE AREA TO PREVENT CHEMICAL RUNOFF.
- STAY UPWIND AND FIGHT FIRE AT A SAFE DISTANCE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

- PRODUCT MAY PRODUCE TOXIC AND IRRITATING VAPORS AND FUMES UNDER FIRE CONDITIONS.
-

V. HEALTH HAZARD

-CARCINOGENICITY INFORMATION: NONE CURRENTLY KNOWN.

-ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

- MODERATELY TOXIC; THE ORAL LD50 IN RATS IS 1,492 MG/KG FOR MALES AND 837 MG/KG FOR FEMALES. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION AND ULCERATION.

SKIN ABSORPTION:

- SLIGHTLY TOXIC; ACUTE DERMAL LD50 IN RABBITS IS 2,871 MG/KG.
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INHALATION:

- A SINGLE EXPOSURE TO VAPORS IS NOT LIKELY TO BE HAZARDOUS.
-

SKIN CONTACT:

- ESSENTIALLY NON-IRRITATING TO SKIN.
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EYE CONTACT:

- MAY CAUSE SEVERE IRRITATION WITH CORNEAL INJURY WHICH MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS.

CHRONIC EFFECTS:

- EXCESSIVE EXPOSURE MAY CAUSE LIVER, KIDNEY, GASTROINTESTINAL AND MUSCULAR EFFECTS. SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE MAY BE NAUSEA, VOMITING, ABDOMINAL CRAMPS AND DIARRHEA.

OTHER HEALTH HAZARD:

- NONE CURRENTLY KNOWN.
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-EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING:

- IF INGESTED, DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER.
- OBTAIN MEDICAL ATTENTION IMMEDIATELY.
-

SKIN:

- WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

INHALATION:

- MOVE PERSON TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, OBTAIN MEDICAL ATTENTION IMMEDIATELY.

EYES:

- IT IS IMPERATIVE TO FLUSH EYES WITH WATER FOR AT LEAST 30 MINUTES HOLDING EYELIDS OPEN. PROMPT MEDICAL ATTENTION IS ESSENTIAL.

- NOTES TO PHYSICIAN
- SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN
- RESPONSE TO REACTIONS OF THE PATIENT. THERE IS NO SPECIFIC ANTIDOTE.
- IF VICTIM IS FULLY ALERT, INDUCE EMESIS WITH SYRUP OF IPECAC.
- FOLLOWING EMESIS, ADMINISTER 30 TO 50 GMS. OF ACTIVATED CHARCOAL. IN
- SEVERE POISONING RESULTING FROM THE INGESTION OF LARGE AMOUNTS OF
- THIS PRODUCT, FORCED ALKALINE DIURESIS MAY BE REQUIRED.
-

VI. REACTIVITY DATA

STABILITY : STABLE
CONDITIONS TO AVOID: AVOID ELEVATED TEMPERATURES AND OPEN
FLAMES.
POLYMERIZATION : WILL NOT OCCUR
CONDITIONS TO AVOID: NONE CURRENTLY KNOWN.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) ACIDS AND OXIDIZING
MATERIALS MATERIALS.
HAZARDOUS : PRODUCT WILL PRODUCE HCl, NITROGEN OXIDES UNDER FIRE
COMBUSTION CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
-DIKE AND CONTAIN, ABSORB IN INERT MATERIAL SUCH AS CLAY, SAND OR
-SAWDUST. PLACE MATERIAL IN A CHEMICAL WASTE CONTAINER FOR PROPER
-DISPOSAL. WASH AREA WITH WATER, DETERGENT AND AMMONIA, ABSORB AND PLACE
-IN WASTE CONTAINER.
WASTE DISPOSAL METHOD
-THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL
-PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATION : WHEN RESPIRATORY PROTECTION IS REQUIRED, USE NIOSH/
MSHA AIR-PURIFYING RESPIRATOR.
VENTILATION : LOCAL EXHAUST SUFFICIENT.

GLOVES : IMPERVIOUS
EYES : CHEMICAL SPLASH GOGGLES.
OTHERS : EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS APRON
AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER
- MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
- CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS.
-
- DO NOT APPLY WHEN WEATHER CONDITIONS FAVOR DRIFT FROM TARGET AREA, AS
- THIS PRODUCT MAY INJURE COTTON, BEANS, VEGETABLES, CERTAIN LEGUMES
- AND ORNAMENTALS.

OTHER PRECAUTIONS

- A) RCRA HAZARDOUS WASTE NUMBER:----- U240

- B) SARA TITLE III, SECTION 313:----- NOT LISTED
- C) SARA THRESHOLD PLANNING QUANTITY: NOT LISTED
- D) CERCLA REPORTABLE QUANTITY:----- 100 LB.
- E) CALIFORNIA PROPOSITION 65:----- NOT LISTED
- F) LISTED UNDER MASSACHUSETTS AND NEW JERSEY STATE RIGHT-TO-KNOW LAWS.

X. SHIPPING INFORMATION

D.O.T. DATA - PROPER SHIPPING NAME:

- "RQ" ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.,
- (2,4-D ACID), 9, UN3082, PG III "ERG GUIDE #171"

HAZARD CLASS : CLASS 9
IDENTIFICATION NO.: UN3082
LABELS REQUIRED : CLASS 9
PLACARDING : UN3082

FREIGHT CLASSIFICATION:

- COMPOUND, TREE OR WEED KILLING, LIQUID, NOIBN
-

..CHEMICAL NAME EQUIVALENT R.Q.
2,4-DICHLOROPHENOXYACETIC ACID 100 LB(45.4 KG)

XI. GENERAL PRODUCT INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION RATING:

(RATING LEVEL: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-MINIMUM

HEALTH: 2 FIRE: 0 REACTIVITY: 0

S.A.R.A. TITLE III HAZARD CLASSIFICATION: (YES / NO)

IMMEDIATE (ACUTE) HEALTH : Y DELAYED (CHRONIC) HEALTH : Y

SUDDEN RELEASE OF PRESSURE: N

FIRE : N REACTIVE : N

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