

MATERIAL SAFETY DATA SHEET

Total Solutions
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I - Product Identification

Triple Threat

PRODUCT CODE: 0363

CHEMICAL FORMULATION: Selective herbicide concentrate.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CER:			CAS#
				302	355	372	
Dimethylamine Salt of 2,4 dichlorophenoxyacetic acid (2,4-D)	4.55	N/E	N/E	Y	N	N	2008-39-1
Dimethylamine Salt of R(+)-2-(2,4-Dichlorophenoxy)	2.29	N/E	N/E	Y	N	N	104786-87-0
Propionic acid (2,4-DP)							
Dimethylamine Salt of R(+) 2-(2-Methyl-4-Chlorophenoxy)	2.26	N/E	N/E	Y	N	N	66423-09-4
Propionic acid (MCPP)							

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (AIR = 1): N/D

SOLUBILITY IN WATER: Soluble

APPEARANCE AND ODOR: Clear, light brown liquid; characteristic odor

SPECIFIC GRAVITY (WATER = 1): 1.05

VOC CONTENT (% by weight): 25.0-30.0

EVAPORATION RATE (WATER = 1): N/D

pH: 7.0-8.0

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200

(TEST METHOD):

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Strong acids and oxidizers.

CONDITIONS TO AVOID: Excess heat and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon, HCl, nitriles & nitrosamines.

HAZARDOUS POLYMERIZATION: Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN

CARCINOGENS: 2,4-D,

2,4-DP & MCPP are on the IARC group 2B list.

EFFECTS OF OVEREXPOSURE

IF IN EYES: Severe irritation, redness, possible corneal injury; irreversible eye damage.

IF ON SKIN: Prolonged exposure may cause mild skin irritation and dermal sensitization reactions. Harmful if absorbed through skin, may cause similar symptoms to ingestion.

IF SWALLOWED: May cause muscle weakness, nausea, vomiting, abdominal pain, fall in blood pressure or myotonia (prolonged muscular spasm) under extreme exposure conditions.

IF INHALED: May cause moderate respiratory irritation, burning.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention.

IF ON SKIN: Flush skin with water while removing contaminated clothing. Wash skin with plenty of soap and water. Obtain medical attention. Launder clothing separately before reuse.

IF SWALLOWED: Contact physician or poison control center immediately. Rinse mouth with water and give affected person several glasses of water. Do not induce vomiting. Never give anything to an unconscious person.

IF INHALED: Remove person to fresh air. Perform artificial respiration if indicated. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate gastric lavage. If large amounts of the product were ingested, the stomach should be emptied by gastric intubation.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and contain spill. Soak up with inert absorbent material and store in a properly labeled closed container for disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. Use NIOSH approved respirator with organic vapor cartridge and pesticide pre-filter to avoid breathing spray mists if necessary.

VENTILATION LOCAL: Recommended **MECHANICAL:** Recommended

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Chemical goggles or safety glasses.

OTHER PROTECTIVE EQUIPMENT: Impervious protective clothing, emergency shower or eye wash station.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed when not in use.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT ID #: None **DOT PROPER SHIPPING NAME:** None

DOT CLASS: None **DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended,

different shipping names and labeling may apply.

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