

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
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I - Product Identification

Triple Threat

PRODUCT CODE: 0363

CHEMICAL FORMULATION: Selective herbicide concentrate.

NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH:** 2

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

FLAMMABILITY: 1

REACTIVITY: 0

II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	
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) Propionic acid (2,4-DP)	2.29	N/E	N/E	Y	N	N	104786-87-0
Dimethylamine Salt of R(+)-2-(2-Methyl-4-Chlorophenoxy) Propionic acid (MCP)	2.26	N/E	N/E	Y	N	N	66423-09-4

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): N/D

EVAPORATION RATE (WATER = 1): N/D

pH: 7.50

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.**CONDITIONS TO AVOID:** None

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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