



IDEAS TO GROW WITH®

PO BOX 16458 • FRESNO CA 93755

# MATERIAL SAFETY DATA SHEET

PRODUCT/TRADE NAME:

## Broadrange 55 Herbicide

### I. NAME

PRODUCT/TRADE NAME: BROADRANGE 55 HERBICIDE  
EPA REGISTRATION #: 2217-813-2935  
CHEMICAL NAME/Common Name:  
Diethanolamine Salt of 2,4-Dichlorophenoxy Acetic Acid/2,4-D

### II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
2,4-D	5742-19-8	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

### III. PHYSICAL DATA

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.28  
MELTING POINT: NA  
VAPOR DENSITY (AIR = 1): >1  
% VOLATILES BY VOL.: NA  
ODOR: Amine  
APPEARANCE: Amber Liquid  
FLASH POINT/METHOD: 112°F/PM Closed Cup (will not sustain combustion)  
VAPOR PRESSURE (mmHg): <17  
SOLUBILITY IN H<sub>2</sub>O: Soluble

### IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA:  Water Fog  Foam  Alcohol Foam  
 CO<sub>2</sub>  Dry Chemical  Other  
FIRE FIGHTING PRECAUTIONS & HAZARDS:  
Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective clothing. Do not breathe smoke or spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

### V. CARCINOGEN STATUS

OSHA  NTP  IARC  No Listing Type: 2,4-D

### VI. REACTIVITY

Stable  HAZARDOUS POLYMERIZATION  
 Unstable  May Occur  Will Not Occur  
AVOID: Oxidizers, Acids and bases  
HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>x</sub>, NO<sub>x</sub>, HC<sub>1</sub>

### VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate respiratory protective equipment. Absorb with inert material. Vacuum or sweep material up and place in an approved disposal container.  
DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material. Place in disposal container and repeat procedure as necessary until area is clean.  
ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.  
DISPOSAL: Place in DOT-approved container and dispose of in an EPA Class I disposal site.

### VIII. HEALTH PRECAUTION DATA

INGESTION: Acute oral LD<sub>50</sub> (rate) 625 mg/kg (RTECS\*). Do not ingest. Wash before eating, drinking or smoking. Do not store near food or feed.  
INHALATION: PEL/TLV 10 mg/m<sup>3</sup>. Avoid inhalation of vapors or spray mist. Use appropriate respiratory protection for exposures above the PEL/TLV.  
SKIN ABSORPTION: Dermal LD<sub>50</sub> (rate) 2115 mg/kg (RTECS\*). Avoid contact with skin. May cause skin irritation and burn. Wear appropriate personal protective equipment to reduce exposure.  
EYE EXPOSURE: Keep out of eyes. May cause corneal injury and irreversible eye damage. Wear appropriate eye protection to reduce exposure. If exposed, flush eyes with water for 15 minutes.  
EFFECTS OF OVEREXPOSURE: May irritate mouth, throat and gastrointestinal tract. Symptoms of overexposure are chest pain, abdominal pain, diarrhea, muscle twitching, stiffness, sweating and convulsions. Can be fatal. Chronic exposure may cause kidney, liver, blood or testicular damage. Medical conditions involving the above symptoms may be aggravated by exposure.  
FIRST AID: In all cases, get prompt medical attention. Give several glasses of

water. Do not induce vomiting. For eye exposure, flush eyes for 15 minutes with water. If inhaled, remove victim to fresh air, and administer CPR if necessary. For skin contact, remove contaminated clothing and shower with soap and water.

### IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA - approved respirator for exposures up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined space entry and exposures above 10 times the PEL/TLV.

PERSONAL PROTECTIVE EQUIPMENT: Neoprene or rubber boots, neoprene or rubber gloves, long-sleeved coveralls, chemical goggles and hat. For manufacture, formulation and application operations, recommend a shower at the end of the work shift.

VENTILATION: Local exhaust ventilation is recommended for manufacture and formulation. Store in a well-ventilated area. Allow closed trucks adequate time to ventilate prior to entering.

### X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions. Do not store near open flame, sparks or other ignition sources.

### XI. REGULATORY DATA

SARA HAZARD CLASS:  Acute  Chronic  Flammable  
 Pressure  Reactive  None

SARA 313:  Yes  No Chemical: 2,4-D

SARA 302:  Yes  No Chemical:

TPQ:

CERCLA:  Yes  No Chemical: 2,4-D

RQ: 100\*

RCRA:  Yes  No

NFPA HAZARD RATING:

Health: [2]

Fire: [2]

Reactivity: [0]

Special: [ ]

HMS CODES:

Health: [2]

Fire: [2]

Reactivity: [0]

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

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\*Technical Material NE - Not Established NA - Not Applicable

## 24 Hour Emergency Phone Number

### CHEMTREC: (800) 424-9300

