

# MATERIAL SAFETY DATA SHEET

## OSHA-MEETS 29 CFR 191.1200 STANDARDS

## NFPA HAZARD RATINGS



HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	1	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

## TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Compound, Tree or Weed Killing, Liquid, NOIBN		
HAZARD CLASS / DIVISION:	None	REF:	Not applicable
IDENTIFICATION NUMBER:	None	LABEL:	NONE REQUIRED

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

**Helosate™ Plus**

EPA Reg. No. 74530-4

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COMPANY IDENTIFICATION

Helm Agro US, Inc.  
8295 Tournament Drive, Suite 310  
Memphis, Tennessee 38125

EMERGENCY PHONE: (800) 424-9300 (CHEMTREC)

INFORMATION PHONE: (901) 312-1525 (Helm Agro)

DATE PREPARED: April 1, 2007  
SUPERSEDES: October 27, 2003

## SECTION 2 - COMPOSITIONAL INFORMATION

COMPONENTS Specific Chemical Identity; (Common Name(s))	CAS #	% (OPTIONAL)	ACGIH PPM	TWA MG/M <sup>3</sup>	OSHA PPM	HELM MG/M <sup>3</sup>	SARA TITLE III	RQ LBS
N-(phosphonomethyl)glycine, Isopropylamine salt (Glyphosate)	38641-94-0	41.0						
Inert ingredients		59.0						

(a) A "YES" in the SARA TITLE III column indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. \* Effective 1996.

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

(c) The Workplace Hazardous Materials Information System (WHMIS), Canada's version of the Hazard Communication, has determined this product must be disclosed as a hazardous ingredient to the extent described in the regulations.

(d) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ) or greater amounts according to 40 CFR 302.

## SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS & SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Practically non-toxic. Brief inhalation exposure is not likely to cause adverse effects.

Move subject to fresh air. If effects occur, consult a physician.

SKIN: Practically non-irritating to skin. May cause slight irritation upon prolonged contact.

Remove contaminated clothing; wash affected area with soap and water. Launder contaminated clothing before reuse. If irritation persists, seek medical attention.

EYES: Causes temporary eye irritation.

Flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

INGESTION: Due to low toxicity no significant adverse effects are expected if small amounts are swallowed.

Do not induce vomiting unless directed by qualified medical personnel. If possible, dilute by giving 2 glasses of water to drink. If symptoms occur, call physician or Poison Control Center.

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute Oral LD<sub>50</sub> (rats) >5000 mg/kg. Acute Dermal LD<sub>50</sub> (rabbits) >5000 mg/kg. Acute Inhalation LC<sub>50</sub> (rats) 3.28 mg/L. Not sensitizing to skin. Eye Irritation (Rabbit) Severely irritating. Skin Irritation (Rabbit) Slight irritation.

CARCINOGENICITY:	NTP? Not listed	IARC MONOGRAPHS? Not listed	OSHA REGULATED? Not listed
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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

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**Helosate Plus**

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Date: April 1, 2007

## SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): Does not flash (Setaflash)      FLAMMABLE LIMITS      LFL: Not applicable      UFL: Not applicable

EXTINGUISHING MEDIA: CO<sub>2</sub>, water, water fog, dry chemical, and chemical foam.      AUTOIGNITION TEMPERATURE: None known.

SPECIAL FIRE FIGHTING PROCEDURES:      Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH-approved or equivalent) and full protective gear. Runoff should be contained.

UNUSUAL FIRE AND EXPLOSION HAZARDS:      Fire may produce toxic, irritating gases. Pesticide particulates may become airborne.

## SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:      Comply with fire, explosion, safety precaution, personal protective equipment sections of this MSDS before proceeding with cleanup. Absorb material with inert material such as "oil dry" and place in suitable container. Keep out of streams, water supplies, and sewers. Contact Helm or Chemtrec if assistance is needed. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

## SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:      Keep container closed when not in use. Protect containers from abuse and extreme temperatures. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Minimize body contact with this product as well as all chemicals in general.

## SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):      In most cases no respiratory protection is required. If discomfort is experienced, wear a respirator (MSHA/NIOSH-approved or equivalent) suitable for the mist or vapor concentrations encountered.

VENTILATION:      LOCAL EXHAUST: May be required to control mist or vapor concentration.  
MECHANICAL (GENERAL): May be required to control mist or vapor concentration.

PROTECTIVE GLOVES: Chemical resistant      EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:      Clean, non-contaminated body covering clothes should be worn. Easy access to eye wash facility and safety shower.

WORK / HYGIENIC PRACTICES:      Practice safe workplace habits. Shower after handling. Wash contaminated clothing before wearing again.

## SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

FREEZING POINT	-14°F	SPECIFIC GRAVITY (WATER =1)	1.1655 @ 20°C
APPEARANCE	Liquid	pH	4.4 - 5.0
ODOR	Slight	SOLUBILITY IN WATER	Miscible
COLOR	Amber - Brown	% VOLATILE (BY WEIGHT)	Approximately 50%

## SECTION 9 - STABILITY AND REACTIVITY

STABILITY:      Stable when stored under normal warehouse conditions.      CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID):      Contact with galvanized or unlined steel (except stainless steel) may initiate decomposition and generation of hydrogen gas that can be highly combustible.

HAZARDOUS DECOMPOSITION PRODUCTS:      Hydrogen gas may be generated via contact with galvanized or unlined mild steel equipment.

HAZARDOUS POLYMERIZATION:      Not known to occur.      CONDITIONS TO AVOID:

## SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:      Incinerate pesticide or triple rinsate that cannot be used according to label directions and contaminated diking material in a permitted facility according to current local, state, and Federal regulations.

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