



MATERIAL SAFETY DATA SHEET



SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY (MATERIAL TO AVOID): NE

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS: Oral LD₅₀ = Rat = > 5.0 g/kg

ACUTE DERMAL EFFECTS: Dermal LD₅₀ Practically non-toxic, (rat) LD50 >5.0 gm/Kg

CARCINOGENICITY: Glyphosate: Glyphosate is noat considered to be a carcinogen. Glyphosate did not produce tumors in any of the long-term toxicology studies. EPA has classified glyphosate in a category "E" (evidence of noncarcinogenicity for humans) Mice: 2- year feeding study. Reduced body weight gain and effects on liver tissues were observed at high dose levels Rate: 2 – year feeding study. Reduced body weight gain and eye changes were observed at high dose level in one study, while no treatment related effects occurred in a second study conducted at a lower dose. Dogs: No adverse effects were observed in feeding studies with dogs. **Teratogenicity (birth defects):** Glyphosate: No evidence of teratogenic effects. Results of rat and rabbit teratology studies indicate that no birth defects were noted. This included dose levels of glyphosate that were maternally toxic. **Reproductive Toxin:** Glyphosate: No evidence of adverse reproductive effects. Glyphosate was fed continuously to rats at a very high dose level for successive generations. Toxicity was reported in offspring from the high dose, a level which also produced adverse effects on the mothers. In a 3-generation study conducted at lower dose levels, no adverse effects were seen on the ability of male or female rats to reproduce. **Mutagenicity (genetic effects):** Glyphosate has not produced any genetic changes in various mutagenicity tests involving animals and animal or bacterial cells.

EYE EFFECTS: moderately irritating, irritation cleared by test day 7 EPA FIFRA toxicity category III

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Aquatic Invertebrates: 48-hr EC50 Daphnia magna: 1,634 mg/L; Practically Nontoxic Warmwater Fish: 96- hr LC50 Silver orfe: 491 ml/L; Practically Nontoxic Coldwater Fish: 96-hr LC 50 Rainbow trout: 322 mg/L; Practically nontoxic Algal Species: 72-hr EC50 Selenastrum: 15 mg/L; Slightly Toxic Studies with the active ingredient indicate that this product would be practically nontoxic to avian species and honeybees. The results of degradation and bioconcentration studies with the active ingredient in this product indicate that it is rapidly absorbed into the soil, readily biodegrades in soil and water, and does not bioaccumulate.

ENVIRONMENTAL FATE: NE

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Product Disposal: Partially filled bottle may be disposed of by securely wrapping original container in several layers of newspaper and discarding in trash. In case of spill or leak, soak up with paper towels and discard in trash. **Container Disposal:** Do not reuse empty bottle. Rinse thoroughly and wrap in several layers of newspaper before discarding in trash.

SECTION 14: TRANSPORT INFORMATION

***DOT HAZARD DESCRIPTION:** Not Regulated

(*) U.S Department of Transportation

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: N/A

SARA TITLE III: reporting not required unless TPQ exceeded in inventory

CERCLA: N/A

INDIVIDUAL STATES: States such as Pennsylvania, New Jersey, California, Vermont, Massachusetts and Rhode Island may all have components of this product listed; consult specific state regulatory requirements for additional information.



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SECTION 16: OTHER INFORMATION

This information is provided in good faith, but without express or implied warranty. For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components and the DOT Emergency Response Guidebook.