

**IVORYCHEM PTE LIMITED**

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Co. Registration No. 200405572W
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MATERIAL SAFETY DATA SHEET**REAPER 400 SL HERBICIDE**

Version: Global
Date Approved:
Revision No: 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: REAPER® 400 SL HERBICIDE
ACTIVE INGREDIENT: MCPA
CHEMICAL FAMILY: NA
CHEMICAL NAME OF ACTIVE INGREDIENT(S): 2-methyl-4-chlorophenoxyacetic acid
MOLECULAR FORMULA:
SYNONYMS: MCPA Na sale; 2-methyl-4-chlorophenoxyacetic acid, sodium salt

MANUFACTURER

IVORYCHEM PTE LTD
15 Beach Road, #02-09
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Emergency Telephone Numbers:

Emergency Phone contact@ivorychem.com (Please refer local label for Emergency Numbers in your region).

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Wt. %	PEL/TLV	EC No.	EC Class
MCPA		40	None	None	None
Other ingredients	-	60	None	None	None

HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

WARNING STATEMENTS: DANGER. Keep out of reach of children. Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist.

POTENTIAL ADVERSE HEALTH EFFECTS

LIKELY ROUTES OF EXPOSURE: Inhalation, eye and skin contact.

EYE CONTACT: Severely irritating.

SKIN CONTACT: Slightly irritating. Overexposure by skin absorption may cause headache,



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dizziness, nausea, vomiting, gastrointestinal irritation, weakness and central nervous system depression.

INHALATION: Low inhalation toxicity.

INGESTION: Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation, weakness and central nervous system depression.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

SUBCHRONIC (TARGET ORGAN) EFFECTS: (An adverse effect with symptoms that develop slowly over a long period of time): Repeated overexposure may cause effects to liver, kidneys, blood chemistry, tastes and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods.

CHRONIC EFFECTS/CARCINOGENICITY: The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. Newer rat and mouse lifetime feeding studies did not show carcinogenic potential for MCPA.

REPRODUCTIVE TOXICITY: Testicular effects and lower male fertility have been noted in animal studies.

DEVELOPMENTAL TOXICITY: MCPA studies in laboratory animals have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals.

GENOTOXICITY: There have been some positive and some negative studies, but the weight of evidence is that MCPA is not mutagenic.

FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.

EYE CONTACT: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN CONTACT: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: no specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

NOTE TO PHYSICIAN: No specific antidote. Treatment is symptomatic. This product is irritating to mucous membranes. If large amounts (greater than 1 ml/kg body weight) of the product have been ingested, the stomach should be evacuated by gastric intubation with the aid of a cuffed endotracheal tube to prevent exposure of the esophagus. Instill 30 gm activated charcoal in 3-4 oz of water. Avoid oily laxatives.

This product contains a phenoxy herbicide. Myotoxic effects may include muscle fibrillations,



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myotonia and muscular weakness. Ingestion of

FIRE FIGHTING MEASURES

FLASH POINT: > 230°F (110°C) by Seta flash method

AUTOIGNITION TEMPERATURE: Not determined

FLAMMABLE LIMITS (LFL – UFL): Not determined

FIRE AND EXPLOSION HAZARD: Combustion may yield toxic corrosive fumes. Containers will burst from internal pressure under extreme fire conditions.

HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS): Hydrogen chloride, oxides of nitrogen and oxides of carbon.

IN CASE OF FIRE

Use water, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

ENVIRONMENTAL AND REGULATORY REPORTING: Prevent material from entering public sewer system or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of top soil. The affected area should be removed and placed in an appropriate container for disposal. Spills may be reportable to federal, state and/or local agencies.

HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Keep at temperatures above 32°F (0°C). Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

EXPOSURE CONTROLS / PERSONAL PROTECTION

INGESTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

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EYE CONTACT: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

SKIN CONTACT: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

INHALATION: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against pesticides. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Reddish-yellow clear liquid

ODOR: Phenolic

SPECIFIC GRAVITY/DENSITY: Approximately 1.11

pH: 7.5 to 10

SOLUBILITY IN H₂O: MCPA sodium 270,000 mg/l. Product soluble.

MOLECULAR WEIGHT: 222.6 (data on MCPA sodium salt)

STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

DECOMPOSITION PRODUCTS: Hydrogen chloride, oxides of carbon and nitrogen

MATERIALS TO AVOID: Excessive heat

TOXICOLOGICAL INFORMATION**ACUTE TOXICITY/IRRITATION STUDIES (FINISHED PRODUCT)**

Ingestion:	Oral (LD50 Rat) :	2900 mg/kg
Dermal:	Dermal (LD50 Rabbit) :	> 2,020 mg/kg
Inhalation:	Inhalation (LC50 Rat) :	> 5.11 mg/l air - 4 hours
Eye Contact: Skin Contact: Skin Sensitization:	Extremely Irritating (Rabbit) Slightly Irritating (Rabbit) Not a Sensitizer (Guinea Pig)	

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ECOLOGICAL INFORMATION

ECO-ACUTE TOXICITY: Invertebrates (Daphnia magna) LC50/EC50 >830 mg/L
Fish (Trout) LC50/EC50 > 310 mg/L
Fish (Bluegill) LC50/EC50 > 360 mg/L
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 377 mg/kg
Birds (8-day dietary - Mallard Duck) LC50/EC50 >5620 ppm

DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedure and disposal of wastes.

TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: NA
DOT CLASSIFICATION: NA
DOT LABELS REQUIRED: NA
DOT PLACARDS REQUIRED: NA

REGULATORY INFORMATION

NA

OTHER INFORMATION

Section(s) Revised : New Format