

**IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre
Singapore 189677
Tel: +65 – 6337 7765
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Email: contact@ivorychem.com
Web: www.ivorychem.com
Co. Registration No. 200405572W
GST Registration No. 200405572W

MATERIAL SAFETY DATA SHEET**SLICE 960 EC HERBICIDE**

Version: Global
Date Approved: 08/13/1998
Revision No: 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SLICE 960 EC HERBICIDE
ACTIVE INGREDIENT: Metalachlor
CHEMICAL FAMILY: Chloroacetanilide Herbicide
CHEMICAL NAME OF ACTIVE INGREDIENT(S): Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S)
MOLECULAR FORMULA: NA
SYNONYMS: NA

MANUFACTURER

IVORYCHEM PTE LTD
15 Beach Road, #02-09
Beach Centre
Singapore 189677
Tel: +65 63377765
Fax: +65 63377730

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
Metalachlor	10265-92-6	96	None	None	None
Other ingredients	-	4	None	None	None

HAZARDS IDENTIFICATION

SYMPTOMS OF ACUTE EXPOSURE: May cause eye and skin irritation. Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

PHYSICAL PROPERTIES

Appearance: Dark brown liquid
Odor: Petroleum odor



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Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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: If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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: If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: There is no specific antidote if this product is ingested. Treat symptomatically. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

MEDICAL CONDITION LIKELY TO BE AGGRAVATED BY EXPOSURE

None known.

FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point (Test Method): > 200°F (Setaflash)

Flammable Limits (% in Air): Lower: % Not Applicable
Upper: % Not Applicable

Flammability: Not Flammable

Autoignition Temperature: Not Available

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

IN CASE OF FIRE

Use dry chemical, 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. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.



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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

HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. 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

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

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.

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: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

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

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Dark brown liquid

ODOR: Petroleum Odor

MELTING POINT: Not Applicable

BOILING POINT: Not Applicable

SPECIFIC gravity/DENSITY: 1.11 g/cm³ @ 68°F (20°C)

pH: 7.2 (1% solution in H₂O @ 77°F (25°C))

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STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

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

Ingestion:	Slightly Toxic Oral (LD50 Rat) :	2,149 mg/kg body weight
Dermal:	Slightly Toxic Dermal (LD50 Rabbit) :	> 2,020 mg/kg body weight
Inhalation:	Practically Non-Toxic Inhalation (LC50 Rat) :	> 3.8 mg/l air - 4 hours
Eye Contact: Skin Contact: Skin Sensitization:	Moderately Irritating (Rabbit) Slightly Irritating (Rabbit) Not a Sensitizer (Guinea Pig)	

REPRODUCTIVE/DEVELOPMENTAL EFFECTS: None observed.

CHRONIC/SUBCHRONIC TOXICITY STUDIES: None observed.

CARCINOGENICITY: Benign liver tumors at high dose levels (female rats).

ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS: Slightly to moderately toxic to fish. Slightly toxic to invertebrates. Practically non-toxic to birds and bees.

ECO-ACUTE TOXICITY: Bees LC50/EC50 > 200 ug/bee
Invertebrates (Water Flea) LC50/EC50 26 ppm
Fish (Trout) LC50/EC50 12 ppm
Fish (Bluegill) LC50/EC50 3.16 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,620 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 5,620 ppm

ECO-CHRONIC TOXICITY: Not Available

ENVIRONMENTAL FATE: The information presented here is for the active ingredient, s-Metalachlor. Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water

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(after 24 h).

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 CLASSIFICATION

Ground Transport - NAFTA

Packages less than 3200 gal. - Not regulated.

Packages larger than 3200 gal.

Proper Shipping Name: RQ Other Regulated Substances, Liquid, N.O.S. (Naphthalene)

Hazard Class or Division: Class 9

Identification Number: NA 3082

Packing Group: PG III

Air Transport - NAFTA

Not regulated in less than 3200 gal. packages.

B/L FREIGHT CLASSIFICATION

Herbicides, NOI (NMC Class 60)

COMMENTS

Water Transport - International

Proper Shipping Name

< 3200 gal.: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metholachlor), Marine Pollutant

> 3200 gal.: RQ Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metalachlor/Naphthalene), Marine Pollutant

Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PG III

IMDG EMS #: F-A, S-F

AIR TRANSPORT - INTERNATIONAL

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metalachlor)

Hazard Class or Division: Class 9

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Identification Number: UN 3082
Packing Group: PG III
Packing Auth.: 914 Special Provision A97
Note: Max. inner package: Plastic - 5 liters, metal - 10 liters
Max. single package: 450 liters

REGULATORY INFORMATION

CERCLA/SARA 302 REPORTABLE QUANTITY (RQ)

Report product spills > 3,200 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

RCRA HAZARDOUS WASTE CLASSIFICATION (40 CFR 261)

Under certain circumstances, discarded product may

TSCA STATUS

Exempt from TSCA, subject to FIFRA

OTHER INFORMATION

Section(s) Revised : New Format