

MATERIAL SAFETY DATA SHEET

Rev. Date: 05/20/2013 MSDS Date: 07/12/2010

MARENGO® G

EPA Registration Number: 432-1523-59807

1.	CHEMICAL	PRODUCT	AND COMPANY	INFORMATION
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Product name: MARENGO G **EPA Registration No.**: 432-1523-59807

Product Use Herbicide

Company Name OHP, Inc.

PO Box 51230 Mainland, PA 19451 (800) 659-6745

EMERGENCY TELEPHONE NUMBERS:

TRANSPORTATION EMERGENCY

(24 hours a day) : CHEMTREC:

(800) 424-9300

MEDICAL EMERGENCY (24 hours a day) and PRODUCT

INFORMATION : (800) 356-4647

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Caution! Caution - substance not yet tested completely. Avoid breathing dust.

Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State : granular

Odor : almost odorless sweet

Appearance : green to brown

Exposure routes : Inhalation, Eye contact

Immediate Effects

Eye Causes eye irritation. Do

not get in eyes.

Ingestion. May be harmful if swal-

lowed.lowed. Do not take

internally.

Inhalation May be harmful if inhaled

Avoid breathing dust.

Chronic or Delayed

Long-Term This product or its compo-

nents may have target

organ effects.

Potential Environmental

Effect. This product may cause

adverse effects on nontarget plants. 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-NO.	Average % by Weight	
Indaziflam	950782-86-2	0.0224	
Calcium carbonate	1317-65-3		

4. FIRST AID MEASURES

General....: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin....: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Notes to physician

5. FIRE FIGHTING MEASURES

Flash point : not applicable

Suitable extinguishing

media Waterspray, Foam, Carbon

dioxide (CO2), Dry

chemical

Fire Fighting

Instructions : Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow water to come into direct contact with the product.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods for cleaning up...: Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice......: Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

7. HANDLING AND STORAGE

Handling procedures Handle and open container in a manner as to prevent spillage.

Storing Procedures.....: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Work/Hygienic

Remove contaminated clothing immediately and dispose of safely. Wash thoroughly and put on clean clothing.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash thoroughly and put on clean clothing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection : Follow all label instructions. Train employees in safe use of the product.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

 $\textbf{Eye/Face Protection} \ \dots \dots \ \exists \ \mathsf{Tightly} \ \mathsf{fitting} \ \mathsf{safety}$

goggles

Hand protection. : Chemical resistant nitrile

rubber gloves

Body Protection: Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory protection....: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Calcium carbonate	1317-65-3	NIOSH	REL	5 mg/m3
		NIOSH	REL	10 mg/m3
		OSHA Z1	PEL	5 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		OSHA Z1A	TWA	15 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Indaziflam	950782-86-2	OES BCS*	TWA	0.14 mg/m3

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance green to brown

Physical State : granular

Odor : almost odorless sweet

Bulk density 40 - 44 lb/ft³

10. STABILITY AND REACTIVITY

Hazardous reactions....: No hazardous reactions when stored and handled according to prescribed instructions.

Chemical Stability : Stableunderrecommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Only an acute eye irritation study has been performed on this product as formulated. The other acute toxicity studies have been bridged from a formulation containing a higher percentage of the active ingredient, indaziflam.

Acute oral toxicity rat: LD50: > 2,000 mg/kg



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Acute dermal toxicity rabbit: LD50: > 2,000 mg/kg

Acute inhalation toxicity rat: LC50: > 5.2 mg/l

Exposure time: 4 h

Determined in the form of dust. rat: LC50: > 20.8 mg/l Exposure time: 1 h

Determined in the form of dust. Extrapolated from the 4 hr LC50.

Skin irritation rabbit: slight irritation

Eye irritation rabbit: Moderate eye irritation. **Sensitisation** guinea pig: Non-sensitizing.

Assessment Carcinogenicity

ACGIH None.

NTP None.

IARC None.

OSHA None.

12. ECOLOGICAL INFORMATION

Environmental precautions

Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

13. DISPOSAL CONSIDERATIONS

General Disposal

Guidance Dispose in accordance with all local, state/provincial and federal regulations. Never place unused product down any indoor or outdoor drain. Follow advice on product label and/or leaflet.

Container Disposal....: Do not re-use empty containers. Follow advice on product label and/or leaflet.

RCRA Information Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

14. TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA list

Calcium carbonate 1317-65-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop 65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Calcium carbonate 1317-65-3 MN. RI

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Material Safety Data Sheet.

Date: 07/12/2010

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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