

**MARENGO® G**

EPA Registration Number: 432-1523-59807

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

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**

NOTE. . . . .: *Please refer to Section 11 for detailed toxicological information.*

**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 swallowed. Do not take internally.  
**Inhalation** . . . . .: May be harmful if inhaled. Avoid breathing dust.  
**Chronic or Delayed Long-Term** . . . . .: This product or its components may have target organ effects.  
**Potential Environmental Effect.** . . . . .: This product may cause adverse effects on non-target 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.

**Inhalation** . . . . .: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

**Notes to physician Treatment** . . . . .: Treat symptomatically. There is no specific antidote.

**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**

**Procedures** . . . . .: Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

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.

**Eye/Face Protection** . . . . .: Tightly fitting 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
Indaziflam	950782-86-2	TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
		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/ft<sup>3</sup>

**10. STABILITY AND REACTIVITY**

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

**Chemical Stability** . . . . .: Stable under recommended 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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