

Material Safety Data Sheet

Shark H2O

MSDS #: 6307-A
Revision Date: 2013-08-05
Version 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200
And Canadian Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product name | Shark H2O |
| Formula code | 6307 |
| Manufacturer | Emergency telephone number |
| FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com | For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.) 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries) Medical Emergencies: 1 800 / 331-3148 (PROSAR - U.S.A. & Canada) 1 651 / 632-6793 (PROSAR - All Other Countries - Collect) |

2. HAZARDS IDENTIFICATION

| | |
|---------------------------------|--|
| Appearance | Light to dark brown solid |
| Physical state | solid dry powder |
| Odor | slight musty |
| Flammable properties | Finely dispersed particles can form explosive mixtures in air. |
| Potential health effects | |
| Acute effects | |
| Eyes | May cause slight irritation. |
| Skin | Moderately irritating to skin. |
| Chronic effects | |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

| Chemical Name | CAS-No | Weight % |
|---------------------|-------------|----------|
| Carfentrazone-ethyl | 128639-02-1 | 40 |

| | | |
|------------------------------|------------|------|
| Amorphous silica gel | 7631-86-9 | <29 |
| Sodium lignosulfonate | 8061-51-6 | <12 |
| Sodium sulfate | 7757-82-6 | 6.4 |
| bentonite | 1302-78-9 | 5 |
| Alkyl (C8, C10) polyglycosid | 68515-73-1 | <1.2 |

4. FIRST AID MEASURES

| | |
|--------------------|---|
| Eye contact | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice. |
| Skin contact | 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 | Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. |
| Ingestion | Drink 1 or 2 glasses of water. Do not give anything by mouth to an unconscious person. If irritation develops and persists, get medical attention. |
| Notes to physician | Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care. |

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Flammable properties | Finely dispersed particles can form explosive mixtures in air. |
| Sensitivity to Mechanical Impact | Not applicable |
| Sensitivity to Static Discharge | Not applicable |
| Suitable extinguishing media | Foam. Carbon dioxide (CO ₂). Soft stream or water fog only if necessary. |
| Protective equipment and precautions for firefighters | Isolate fire area. Evaluate downwind. Wear self-contained breathing apparatus and protective suit. Do not breathe smoke, vapors or gases generated. |
| NFPA | |
| Health Hazard | 2 |
| Flammability | 1 |
| Stability | 0 |
| Special Hazards | - |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. |
| Environmental precautions | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. |
| Other | For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above. |

7. HANDLING AND STORAGE

| | |
|-----------------|---|
| Handling | Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. |
| Storage | Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only. |

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH | Mexico |
|-----------------------------------|----------------------------|----------|--|---------|
| Amorphous silica gel 7631-86-9 | | | IDLH: 3000 mg/m ³ TWA: 6 mg/m ³ | |
| bentonite 1302-78-9 | TWA: 1 mg/m ³ | | | |
| Chemical Name | British Columbia | Quebec | Ontario TWAEV | Alberta |
| bentonite 1302-78-9 | TWA: 1.0 mg/m ³ | | TWA: 1 mg/m ³ | |

Occupational exposure controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand protection Protective gloves

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Launder work clothing separately from regular household laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | |
|-----------------------------|--|
| Appearance | Light to dark brown solid |
| Color | brown |
| Physical state | solid dry powder |
| Odor | slight musty |
| pH | 7.5 22 @ 25 °C |
| Melting Point/Range | No information available. |
| Freezing point | No information available. |
| Boiling Point/Range | Not applicable |
| Flash Point | Not applicable |
| Evaporation rate | Not applicable |
| Flammable properties | Finely dispersed particles can form explosive mixtures in air. |

| | |
|------------------------|------------------------------|
| Vapor pressure | No information available. |
| Vapor density | No information available. |
| Density | 0.5 g/cm ³ @ 20°C |
| Water solubility | No information available |
| Percent volatile | No information available. |
| Partition coefficient: | Not applicable |
| Viscosity | No information available. |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | Stable. |
| Conditions to avoid | Excessive heat |
| Hazardous decomposition products | Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride, Hydrogen fluoride. |
| Hazardous polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute effects

| | |
|------------------|--|
| Eye contact | Minimally irritating May cause slight irritation |
| Skin contact | Moderately irritating to skin Irritating to skin |
| LD50 Dermal | < 5,000 (Rat) |
| LD50 Oral | > 5,000 mg/kg (Rat) |
| LC50 Inhalation: | > 5.72 mg/L 4 hr (Rat) |

Chronic effects

| Chemical Name | ACGIH | IARC | NTP | OSHA | NIOSH - Target Organs |
|----------------------|-------|------|-----|------|--------------------------|
| Carfentrazone-ethyl | | | | | eyes, respiratory system |
| Amorphous silica gel | | | | | eyes, respiratory system |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Carfentrazone-ethyl (128639-02-1) | | | | |
|-----------------------------------|------------|----------------|-----------|--------|
| Active Ingredient(s) | Duration | Species | Value | Units: |
| Carfentrazone-ethyl | 120 h LC50 | Algae | 5.7 - 17 | µg/L |
| | 96 h LC50 | Fish | 1.6 - 2.0 | mg/L |
| | 48 h LC50 | Daphnia | >9.8 | mg/L |
| | LD50 Oral | Bobwhite quail | >2250 | mg/kg |

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------------|--|---------------------------------------|----------------------------|---|
| Amorphous silica gel | 440 mg/L EC50 72 h (Pseudokirchneriella subcapitata) | LC50 5000 mg/L Brachydanio rerio 96 h | | EC50 7600 mg/L 48 h |

| | | | | |
|----------------|--|--|--|---|
| Sodium sulfate | | LC50 13500 - 14500 mg/L Pimephales promelas 96 h LC50 > >6800 mg/L Pimephales promelas 96 h LC50 3040 - 4380 mg/L Lepomis macrochirus 96 h LC50 13500 mg/L Lepomis macrochirus 96 h | | EC50 630 mg/L 96 h EC50 2564 mg/L 48 h |
| bentonite | | LC50 8.0-19.0 g/L Salmo gairdneri 96 h LC50 19000 mg/L Oncorhynchus mykiss 96 h | | |

Environmental Fate

| | | |
|-----------------------------------|---|-----------------------------------|
| Carfentrazone-ethyl (128639-02-1) | | |
| Active Ingredient(s) | Type of Test | Result |
| Carfentrazone-ethyl | Bioconcentration factor (BCF) Rainbow trout | 159 |
| | Half-life in soil | <1.5 days |
| | log Pow | 3.3 |
| | Mobility in soil | Not expected to reach groundwater |
| | Stability in water | Hydrolysis unstable at pH 5 to 9. |

| | |
|----------------------|----------------|
| Chemical Name | log Pow |
| Carfentrazone-ethyl | 3.3 |

13. DISPOSAL CONSIDERATIONS**Waste disposal methods**

Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated packaging

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION**DOT**

This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

Packaging Type

Bulk Non-Bulk

TDG

The "Marine Pollutant" marking is only applicable when shipped by vessel or air, and is not applicable when shipped only by road or rail in Canada.

UN/ID No

UN3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s.

Hazard Class

9

Packing group

III

Description

UN3077, Environmentally hazardous substance, solid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant

ICAO/IATA**UN/ID No**

UN3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s.

Hazard Class

9

Packing group

III

Marine pollutant

Carfentrazone-ethyl

Description

UN3077, Environmentally hazardous substance, solid, n.o.s., 9, PG III

Limited quantity 30 kg G

IMDG/IMO

| | |
|-----------------------------|---|
| UN/ID No | UN3077 |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. |
| Hazard Class | 9 |
| Packing group | III |
| EmS No. | F-A, S-F |
| Marine pollutant | Carfentrazone-ethyl |
| Description | UN3077, Environmentally hazardous substance, solid, n.o.s. (Carfentrazone-ethyl), 9, PG III, Marine Pollutant |

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | no |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Mexico - Grade

No information available.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials
D2B Toxic materials

16. OTHER INFORMATION

Revision Date: 2013-08-05
Reason for revision: No information available.

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End of Material Safety Data Sheet