



Safety Data Sheet

Miller Hot Sauce®

OSHA HCS 2024
Canadian Workplace Hazardous Material Information System (WHMIS) 2015 rev 2022
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015
GHS (Globally Harmonized System)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Miller Hot Sauce®
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Animal deterrent.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company: Miller Chemical and Fertilizer, LLC
120 Radio Rd
Hanover, PA 17331
Tel.: 717-632-8921
Fax.: 717-646-1104

Internet <http://www.millerchemical.com>

E-mail info@millerchemical.com

1.4. Emergency telephone number CHEMTREC: +1 800 424 9300 or International 1+703-527-3887

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

OSHA Regulatory Status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Physical Hazards	Not classified.
Health Hazards	Acute tox. inhalation, Cat. 4; H332
Environmental Hazard	Not classified.

2.2. Label elements**Symbols/Pictograms**

Signal Word	Warning
Hazard Statements	H332 - Harmful if inhaled

Precautionary Statements

Prevention	Avoid breathing mists/spray. Use only outdoors or in a well-ventilated area
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Additional information Not applicable

Hazards not otherwise classified (HNOC) None known

Hazards associated with known or reasonably anticipated uses None known

SECTION 3: Composition/information on ingredients

Pure substance/mixture Mixture

Chemical Name	CAS NUMBER:	Weight-%
Capsaicin	404-86-4	2.5
Ethoxylated Tallow Amine	61791-26-2	1 - <5

Additional information *The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.
Ingestion	DO NOT INDUCE VOMITING. If vomiting occurs naturally, reduce the risk of aspiration by leaning their body forward. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed Harmful if inhaled.

4.3. Indication of any immediate medical attention and special treatment needed Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Sand/Earth.

Unsuitable Extinguishing Media

None known.

5.2. Special hazards arising from the substance or mixture

Carbon oxides. Combustion products may be toxic.

5.3. Advice for firefighters**Special protective equipment for firefighters**

None known.

Fire-fighting measures

Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away. In case of fire: Stop leak if safe to do so.

For non-emergency personnel

Keep unauthorized personnel away.

For emergency responders

Keep unauthorized personnel away. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Avoid runoff to waterways and sewers.

6.3. Methods and material for containment and cleaning up

Shut off leak if safe to do so. Dike area, recover and reclaim material if possible. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb the liquid on material such as sand, vermiculite, or other inert, noncombustible absorbent and place in a clean, dry container suitable for disposal. Containers should be closed and segregated for later disposal. Scrub the area with detergent and water.

Solids must be disposed of in a permitted waste management facility. Recovered liquid may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose in accordance with local, state and national regulations

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact.

7.2. Conditions for safe storage, including any incompatibilities

For industrial use only. Keep container closed when not in use. Provide adequate ventilation when container are open. Keep at temperatures between 41°F and 104°F (5°C and 40 °C). Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Occupational exposure limits No information available

Biological Limit Values

No information available

8.2. Exposure controls**Engineering Measures**

Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

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Personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable protective clothing.
Hand Protection	For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. NIOSH P95.
Thermal hazards	None known.
Hygiene Measures	General industrial hygiene practice.
Environmental Exposure Controls	Dispose of in accordance with local regulations.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance:**

Physical State	Liquid viscous
Color	Red-brownish
Odor	Pungent Spicy
pH	6.80 - 7.20 @ 68 °F (20 °C) (aqueous approx. 5% in DW)
Melting point / Freezing point	Not applicable
Boiling Point / Boiling Range	> 400°F (204.4°C)
Freezing Point	Not determined
Flash Point	> 300°F (148.8°C) (COC)
Evaporation Rate	Not determined
Flammability	Not determined
Vapor Pressure	<10 mmHg
Relative Vapor Density	Not determined (Air = 1)
Density	7.92 - 8.09 lbs/gal @ 68°F (20°C)
Water Solubility	Dispersible
Partition coefficient	No information available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No information available.
Kinematic viscosity	No data available
Oxidizing Properties	Not applicable
Particle Characteristics	No information available
Specific Gravity	1.00 - 1.05 g/mL @ 68°F (20°C) (H ₂ O=1 @ 4°C)
Percent Volatile	Not determined
VOC Content (%)	Not applicable

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

No data available

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

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10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Hazardous polymerization does not occur
10.4. Conditions to avoid	Heat, flames and sparks
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Pungent fumes may be emitted when heated above 170°F (76.6°C) Carbon oxides

SECTION 11: Toxicological information

General Information	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
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Information on Likely Routes of Exposure

Inhalation	May cause slight irritation if mist occurs
Skin	May cause irritation. Not classifiable
Eyes	May cause irritation. Not classifiable
Ingestion	Large amount of material can cause serious diarrhea. Nausea and vomiting may also occur and possibly abdominal cramping.

11.1. Information on toxicological effects

Capsaicin

LD50s and LC50s	= 148.1 mg/kg Oral LD50
Serious eye damage/eye irritation	Causes serious eye damage
Skin Corrosion/Irritation	Causes skin irritation

Ethoxylated Tallow Amine

Oral LD50	620 mg/kg (rat)
Dermal LD50	> 10000 mg/kg (rat)
Serious eye damage/eye irritation	Risk of serious damage to eyes
Skin Corrosion/Irritation	Irritating to skin.
Carcinogenicity	The product does not contain any component present at concentration greater than or equal to 0.1% listed as carcinogen/possibly carcinogen for NTP, IARC and OSHA.

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Acute Toxicity	Product was tested. LC50 Inhalation (rat) > 2.1 mg/L LD50 Oral (rat) > 5000 mg/kg
Respiratory Sensitization	Based on available data, the classification criteria are not met.

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Serious eye damage/eye irritation	Product was tested. Not classified.
Skin Corrosion/Irritation	Product was tested. Not classified.
Skin Sensitization	Product was tested. Not a skin sensitizer
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - Repeated exposure	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors
11.2.2. Other information	Not applicable

SECTION 12: Ecological information

12.1. Toxicity	Not considered to be harmful to aquatic life
<u>Ethoxylated Tallow Amine</u>	
Aquatic toxicity	This material is toxic to aquatic life.
Persistence / Degradability	Expected to be biodegradable
Bioaccumulative potential:	Bioconcentration potential in aquatic organisms is moderate.
LC50	48-Hour, <i>Daphnia pulex</i> : 2.35mg/L.
96-Hour LC50	Blue gills: 1.3 mg/L
12.2. Persistence and degradability	No data available
12.3. Bioaccumulative potential	No data available
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessment	No data available
12.6. Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors
12.7. Other Adverse Effects	None known

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal Methods**

If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extend of contamination may require use of specialized disposal methods. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information**Mode of Transportation (Road, Water, Air, Rail)**

DOT	Not regulated
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

14.1. UN number or ID number	None
14.2. UN proper shipping name	None
14.3. Transport hazard class(es)	None
14.4. Packing group	None
14.5. Environmental hazards	No
14.6. Special precautions for user	Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information**Global Inventories**

Pure substance/mixture Mixture

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Capsaicin	404-86-4	N	Y	Present
Ethoxylated Tallow Amine	61791-26-2	Present (DSL)	Present	Present

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

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CWA (Clean Water Act)

Not regulated

CAA (Clean Air Act)

Not regulated

U.S. State Right-to-Know Regulations

Chemical Name	CAS Number	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Capsaicin	404-86-4	N	N	N	N	N
Ethoxylated Tallow Amine	61791-26-2	N	N	N	N	N

Y: Listed ; N: Not Listed

CANADA**WHMIS**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

SECTION 16: Other information**Prepared by**

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Reason for Version

Revised in entirety.

Abbreviations and acronyms

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
WHMIS (Workplace Hazardous Materials Information System)
GHS (Globally Harmonized System)
IARC (International Agency for Research on Cancer)
PPE (Personal Protection Equipment)
TWA (Time-Weighted Average)
TLV® (Threshold Limit Value)
STEL (Short Term Exposure Limit)
RQ (Reportable Quantity) (RQ/% in mixture)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
ICAO (International Civil Aviation Organization)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet