



Safety Data Sheet

Spur Shield®

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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Revision Number 1.1 NA
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Spur Shield®
Pure substance/mixture	Mixture

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

Recommended use	Anti-transpirant.
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

Manufacturer	Miller Chemical and Fertilizer, LLC 120 Radio Rd Hanover, PA 17331 Tel.: 717-632-8921 Fax.: 717-646-1104
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Internet	http://www.millerchemical.com
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E-mail	info@millerchemical.com
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1.4. Emergency telephone number	CHEMTREC: +1 800 424 9300 or International 1+703-527-3887
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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)

GHS Classification

Skin Irritant Category 2; H315
Skin Sensitization Category 1; H317
Eye Damage Category 1; H318
Aquatic Acute Category 1; H400
Aquatic Chronic Category 1; H410

2.2. Label elements**Symbols/Pictograms****Signal Word**

Danger

Hazard Statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements**Prevention**

P261 - Avoid breathing mists/spray.
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the environment

Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332 + P333 + P313 - If skin irritation and/or skin rash occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse.

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P391 - Collect spillage

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

Not applicable

Hazards not otherwise classified (HNOC) None known**Hazards associated with known or reasonably anticipated uses** None known**Unknown Acute Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity**SECTION 3: Composition/information on ingredients****Pure substance/mixture**

Mixture

Chemical Name	CAS NUMBER:	Weight-%
Proprietary Pinolene Product	Proprietary	>=60 - <80
Alcohols, C12-16, ethoxylated	68551-12-2	>=5 - <10
Proprietary Essential Oil Blend	Proprietary	>=1 - <5
Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts	90194-26-6	>=1 - <5
2-Ethylhexanol	104-76-7	>=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

Causes serious eye damage. Skin irritation. May cause an allergic skin reaction.

4.3. Indication of any immediate

Treatment should be symptomatic and supportive. Ensure that medical personnel

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medical attention and special treatment needed

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.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits****2-Ethylhexanol - 104-76-7**

Canada - British Columbia - OEL - Skin Skin notation
Notations

Canada - Ontario - OEL - TWA EVs 50 ppm

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.

Personal protective equipment**Eye/Face Protection**

Always wear eye protection when working with chemicals. Wear safety glasses with side shields (or goggles).

**Skin and Body Protection
Hand Protection**

Wear suitable protective clothing.

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Rubber gloves

**Respiratory Protection
Environmental Exposure
Controls**

In case of inadequate ventilation wear respiratory protection.
Dispose of in accordance with local regulations.

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

Physical State	Liquid
Color	Yellow to Amber
Odor	Moderate
pH	6.0 - 7.0 @ 20 °C
Melting point / Freezing point	Not applicable
Boiling Point / Boiling Range	Not determined
Freezing Point	Not determined
Flash Point	> 212°F (100°C)
Evaporation Rate	Not determined
Flammability	Not determined
Vapor Pressure	Not determined
Relative Vapor Density	Not determined (Air = 1)
Density	7.78 - 7.90 lbs/gal @ 68°F (20°C)
Water Solubility	Emulsifies
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	0.93 - 0.95 g/mL @ 68 °F (20 °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

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	Carbon oxides

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SECTION 11: Toxicological information

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

Information on Likely Routes of Exposure

Inhalation	Avoid inhalation of the product
Skin	May cause irritation.
Eyes	Avoid contact with eyes
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**Proprietary Pinolene Product**

Oral LD50	>5050 mg/kg (rat)
Dermal LD50	>5050 mg/kg (rabbit)
Inhalation LC50	>5260 mg/m ³ (rat)
Skin Corrosion/Irritation	Causes skin irritation

Alcohols, C12-16, ethoxylated

Oral LD50	>2000 mg/kg (rat)
Dermal LD50	>3000 mg/kg Rat
Inhalation LC50	>1600 4-hr Rat
Serious eye damage/eye irritation	Irreversible effects on the eye, severe eye irritation
Skin Corrosion/Irritation	Normally reversible injuries
Skin Sensitization	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.

Proprietary Essential Oil Blend

Skin Sensitization	May cause an allergic skin reaction
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Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts

Oral LD50	4445 mg/kg (rat)
Dermal LD50	>2000 mg/kg (rat)
Serious eye damage/eye irritation	Irreversible effects on the eye
Skin Corrosion/Irritation	Causes skin irritation
Skin Sensitization	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.

2-Ethylhexanol

LD50s and LC50s	>3000 mg/kg Dermal LD50 > 4.3 ppm Inhalation LC100 >3000 mg/kg Oral LD50
Serious eye damage/eye irritation	Irritating to eyes
Skin Corrosion/Irritation	Severe skin irritation
Skin Sensitization	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.

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Specific target organ toxicity - May cause respiratory irritation
Single exposure

Spur Shield®

Acute Toxicity	Based on available data, the classification criteria are not met.
Chronic Effects	None known
Respiratory Sensitization	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Causes serious eye damage
Skin Corrosion/Irritation	May cause skin irritation.
Skin Sensitization	May cause an allergic skin reaction
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Not listed as a carcinogen.
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**
Proprietary Pinolene Product
Aquatic toxicity

Very toxic to aquatic life with long lasting effects

Acute toxicity to fish:

- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: 5.7 mg/l
- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: 7.5 mg/l
- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: > 6.5 mg/l

Acute toxicity to aquatic invertebrates:

- Daphnia magna, (OECD guideline 202) 48h EC50: 0.26 mg/l
- Daphnia magna, (EU Method C.2) 48h EC50: ≥ 2.16 - ≤ 9.74 mg/l

Toxicity to algae:

- Pseudokirchnerella subcapitata, (OECD guideline 201) 72h ErC50: 0.24 mg/l, 72h EbC50: 0.18 mg/l, 72h NOEC: 0.1 mg/l.

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Toxicity to bacteria:

- Activated sludge (growth inhibition), (OECD guideline 209) EC50: >100 mg/l

Chronic toxicity to aquatic invertebrates:

- Daphnia magna, 21d NOEC: 0.12 mg/l (read-across to close chemical analogue)

- Daphnia magna, 21d NOEC: 0.27 mg/l (read-across to close chemical analogue)

Aqueous spray application onto water surface (giving nominal test water concentrations 10.7 mg/l Daphnia, 25 mg/l fish) at approximately 1 g/sq.m watersurface caused no evident toxicity in fish. In Daphnia physical entrapment and a maximum of 40% immobilisation was observed.

Toxicity to soil macroorganisms except arthropods:

- Eisenia fetida, 14d LC50: > 1000 mg/kg

Toxicity to honeybees:

- Apis mellifera 48h LD50: > 200 µg per animal (for both ingestion and direct contact)

Toxicity to terrestrial plants

- No adverse effects were observed after spray application of the substance to orange trees, grapevines and cereal crops (wheat and barley).

Alcohols, C12-16, ethoxylated

Aquatic toxicity

Very toxic to aquatic life with long lasting effects

Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts

Aquatic toxicity

Harmful to aquatic life with long lasting effects

2-Ethylhexanol

Aquatic toxicity

Harmful to aquatic life with long lasting effects

LC50

11.5 mg/l

ErC50

11.5 mg/l

WGK Classification (AwSV)

134 WGK: 1

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**13.1. Waste treatment methods****Disposal Methods**

If uncontaminated, recover and reuse as product. If contaminated with other

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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.

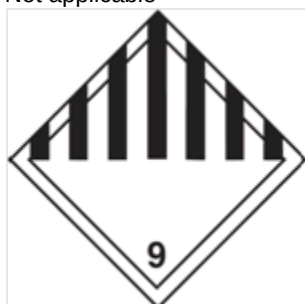
SECTION 14: Transport information**Mode of Transportation (Road, Water, Air, Rail)**

TDG -Canada	Not regulated in non-bulk packages (<119 gal/<882 lb) UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
DOT	Not regulated in non-bulk packages (<119 gal/<882 lb), , UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
ADR	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
RID	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
ADN	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
IATA	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
IMDG/IMO	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant
ICAO	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Poly-1-P-Menthene), 9, PG III, Marine Pollutant

14.1. UN number or ID number	UN3082
14.2. UN proper shipping name	UN3082, ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Poly-1-P-Menthene)
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	Marine Pollutant
14.6. Special precautions for user	Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable



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SECTION 15: Regulatory information

Global Inventories

Pure substance/mixture

Mixture

Chemical Name	CAS NUMBER:	Canada (DSL)	Mexico	TSCA: United States
Proprietary Pinolene Product	Confidential	Present (DSL)	Present	Present
Alcohols, C12-16, ethoxylated	68551-12-2	Y	Y	A
Proprietary Essential Oil Blend	Confidential	Y	N	A
Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts	90194-26-6	Present (DSL)	N	N
2-Ethylhexanol	104-76-7	Present (DSL)	Y	Present

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

EPA

Proprietary Pinolene Product

SARA 313 n/a

Alcohols, C12-16, ethoxylated

SARA 313 n/a

Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts

SARA 313 n/a

2-Ethylhexanol

SARA 313 n/a

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
Proprietary Pinolene Product	Confidential	N	N	N	N	N
Alcohols, C12-16, ethoxylated	68551-12-2	N	N	N	N	N
Proprietary Essential Oil Blend	Confidential	N	N	N	N	N
Benzenesulfonic acid, 4-C10-14- alkyl derivs., calcium salts	90194-26-6	N	N	N	N	N
2-Ethylhexanol	104-76-7	N	N	N	N	Y

Y: Listed ; N: Not Listed

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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**

Miller Chemical and Fertilizer, A Huber Company, Global Regulatory Affairs
info@millerchemical.com

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Reason for Version

New Format.

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