

# **SAFETY DATA SHEET**

Revision date 28-Jul-2023 Revision Number 1

# 1. Identification

**Product identifier** 

Product Name SPUR-M

Other means of identification

Product Code(s) 34458

UN number or ID number 1993

Synonyms None

Registration Number(s) 34458

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

**Restrictions on use** Follow label instructions

Details of the supplier of the safety data sheet

Initial supplier identifier

ALBAUGH LLC 1525 NE 36th St, Ankeny, IA 50021 USA

Emergency telephone number

Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration hazard	Category 1
Flammable liquids	Category 3

### Label elements

### Danger

### **Hazard statements**

Harmful if swallowed Harmful if inhaled Causes serious eye damage

May cause genetic defects

May cause cancer

May be fatal if swallowed and enters airways

Flammable liquid and vapor



#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves, protective clothing, eye protection and face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust, fume, gas, mist, vapors and spray

Use only outdoors or in a well-ventilated area

Ground and bond container and receiving equipment

Use non-sparking tools

Take action to prevent static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Use explosion-proof electrical, ventilating, lighting and .? equipment

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

#### **Eves**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

### Ingestion

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor

Do NOT induce vomiting

# Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
MCPA Ethylhexyl Ester	29450-45-1	26.78-28.44	-	
Cyclohexanone	108-94-1	18.9-20.89	-	
Solvent naphtha, petroleum, light arom	64742-95-6	18.77-20.75	-	
Clopyralid	1702-17-6	4.68-5.18	-	

# 4. First-aid measures

### Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required. IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed

pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Get immediate medical

advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical advice/attention.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give

mouth-to-mouth resuscitation. Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

#### **Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge Y

Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing

vapors or mists.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children.

Store locked up. Store away from other materials.

# 8. Exposure controls/personal protection

# Control parameters

**Exposure Limits** 

Chemical name	Alberta	British Columbia	Ontario	Quebec
Cyclohexanone	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 25 ppm
108-94-1	TWA: 80 mg/m <sup>3</sup>	STEL: 50 ppm	STEL: 50 ppm	TWA: 100 mg/m <sup>3</sup>
	STEL: 50 ppm		Skin	_
	STEL: 200 mg/m <sup>3</sup>			

#### **Appropriate engineering controls**

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Tight sealing safety goggles. Eye/face protection

Wear suitable gloves. Impervious gloves. Hand protection

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

> be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Liquid Color Amber Odor sweet

**Odor threshold** No information available

Remarks • Method **Property** Values

2.5 - 3.5 None known pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flash point 47.8 °C / 118 °F None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Relative vapor density No data available None known Relative density No data available None known Water solubility No data available None known

Solubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

Kinematic viscosity

8.941 cSt (20°C); 4.921 cSt (40°C)

None known

None known

None known

Other information

Explosive properties

Oxidizing properties

No information available.

No information available.

No information available

Liquid Density 1.014 g/mL\*

Bulk density No information available

# 10. Stability and reactivity

#### Reactivity

No information available.

**Chemical stability** 

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Excessive heat.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

#### Information on likely routes of exposure

### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Repeated exposure may cause skin dryness or cracking.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Difficulty in breathing. Coughing and/ or wheezing.

Dizziness.

**Acute toxicity** 

<sup>\*</sup>Listed density is an approximate value and does not necessarily represent that of a specific batch

### **Numerical measures of toxicity**

 Oral LD50
 1478 mg/kg

 Dermal LD50
 > 2000 mg/kg

 Inhalation LC50
 > 1.3 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
MCPA Ethylhexyl Ester 29450-45-1	= 1300 mg/kg (Rat)	-	•
Cyclohexanone 108-94-1	= 1544 mg/kg (Rat)	= 947 mg/kg(Rabbit)	> 6.2 mg/L (Rat)4 h
Solvent naphtha, petroleum, light arom 64742-95-6	= 8400 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 3400 ppm (Rat) 4 h
Clopyralid 1702-17-6	= 2675 mg/kg (Rat) = 4300 mg/kg (Rat)	> 2000 mg/kg (Rabbit) > 2 g/kg (Rabbit)	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

**Serious eye damage/eye irritation** Moderately irritating to the eyes.

**Respiratory or skin sensitization** Did not cause sensitization on laboratory animals.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. May cause genetic defects.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Cyclohexanone	-	Group 3	-	-
108-94-1		•		

# Legend

# IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans **Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Target organ effects Liver, Kidney, Respiratory system, Eyes, Skin, Central nervous system.

**Aspiration hazard** May be fatal if swallowed and enters airways.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
MCPA Ethylhexyl Ester	EC50: =0.46mg/L (72h,	LC50: 3.2 - 4.6mg/L (96h,	-	EC50: =0.29mg/L (48h,
29450-45-1	Pseudokirchneriella	Lepomis macrochirus)		Daphnia magna)

	subcapitata) EC50: =0.43mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =3.2mg/L (96h, Oncorhynchus mykiss) LC50: >0.55mg/L (96h, Lepomis macrochirus)		
Cyclohexanone 108-94-1	-	LC50: 481 - 578mg/L (96h, Pimephales promelas) LC50: =8.9mg/L (96h, Pimephales promelas)	-	-
Solvent naphtha, petroleum, light arom 64742-95-6	<u>-</u>	LC50: =9.22mg/L (96h, Oncorhynchus mykiss)	-	EC50: =6.14mg/L (48h, Daphnia magna)

No information available. Persistence and degradability

**Bioaccumulation** No information available.

**Component Information** 

Chemical name	Partition coefficient
Cyclohexanone	0.86
108-94-1	

Other adverse effects No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

# 14. Transport information

**TDG** 

TDG Small container TDG not required for road or rail per Sec. 1.33; **Notes** 

**TDG Large container** 

UN number or ID number 1993

**UN** proper shipping name Transport hazard class(es)

Packing group

Combustible liquid, n.o.s., (aromatic solvent, cyclohexanone)

3 Ш

Not regulated ICAO (air)

**IMDG** Not regulated

# 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

Contact supplier for inventory compliance status. **TSCA** Contact supplier for inventory compliance status. **DSL/NDSL** Contact supplier for inventory compliance status. **EINECS/ELINCS ENCS** Contact supplier for inventory compliance status. **IECSC** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. AIIC

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

# 16. Other information

NFPA Health hazards 3 Flammability 2 Instability 0 Special hazards - Health hazards 3 \* Flammability 2 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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**Revision Note** No information available.

**Disclaimer** 

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**End of Safety Data Sheet**