

Issue Date 11/02/2020

Revision Date 05/21/2021

Version 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** M-1 SLUDGE REDUCTION

**Other means of identification**

**Product Code** 1560

**Details of the supplier of the safety data sheet**

**Company Name** Blue Cardinal Chemical, LLC  
3670 Scarlet Oak Blvd.  
St. Louis, MO 63122  
800-325-3312

**Emergency telephone number**

**Emergency Telephone** CHEMTEL 1-800-255-3924

### 2. HAZARDS IDENTIFICATION

**Classification**

Skin sensitization

Category 1

**Label elements**

**Emergency Overview**

**WARNING**

**Hazard statements**

May cause an allergic skin reaction.



**Appearance:** Not determined

**Physical state:** Liquid

**Odor:** Not determined



**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

**Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Precautionary Statements - Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Proprietary terpene	Proprietary	<1	*

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

**4. FIRST AID MEASURES****First aid measures**

<b>Skin Contact</b>	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effect, both acute and delayed**

**Symptoms** May cause an allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Not determined.

**Specific hazards arising from the chemical**

Not determined.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment & cleaning up** Prevent further leakage or spillage if safe to do so. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

**Conditions for safe storage, including any incompatibilities**

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

**Incompatible Materials** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

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

<b>Eye/face protection</b>	Refer to 29 CFR 1910.133 for eye and face protection regulations.
<b>Skin and body protection</b>	Refer to 29 CFR 1910.138 for appropriate skin and body protection.
<b>Respiratory protection</b>	Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>General Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice.

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

<b>Physical State</b>	Liquid
<b>Appearance</b>	Not determined
<b>Color</b>	Not determined
<b>Odor</b>	Not determined
<b>Odor Threshold</b>	Not determined

<b><u>Property</u></b>	<b><u>Values</u></b>
pH	Not determined
Melting point / freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Flammability Limit in Air	Not determined
Upper flammability or explosive limits	Not determined
Lower flammability or explosive limits	Not determined

Vapor Pressure	Not determined
Vapor Density	Not determined
Relative Density	1.00
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility Of Hazardous Reactions

None under normal processing.

### Conditions To Avoid

Keep out of reach of children.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Skin Contact</b>	Avoid contact with skin.
<b>Eye Contact</b>	Avoid contact with eyes.
<b>Inhalation</b>	Avoid inhalation.
<b>Ingestion</b>	Do not ingest.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Proprietary sulfonate	= 1000 mg/kg ( Rat )	-	-
Proprietary terpene	= 4400 mg/kg ( Rat ) = 5200 mg/kg ( Rat )	>5 g/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** May cause an allergic skin reaction.

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

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Proprietary terpene		Group 3		X

*IARC (International Agency for Research on Cancer)*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

Oral LD50 33,898.30 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Not determined.

**Component Information**

Not available.

**Soil Mobility**

Not determined.

**Persistence and Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Other Adverse Effects**

Not determined.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

CHEMICAL NAME	PARTITION COEFFICIENT
Proprietary terpene	Toxic

**14. TRANSPORT INFORMATION**

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION****International Inventories**

CHEMICAL NAME	TSCA	TSCA INVENTORY STATUS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary sulfonate	X	ACTIVE	X	X	X	X	X	X	X
Proprietary terpene	X	ACTIVE	X	X	X	X	X	X	X

**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**

**AICS - Australian Inventory of Chemical Substances**

**US Federal Regulations****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).

**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.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**US State Regulations****California Proposition 65**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations.

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards	N/D	Flammability	N/D	Reactivity	N/D	Other	N/D
<b>HMIS</b>	Health hazards	N/D	Flammability	N/D	Reactivity	N/D	Personal protection	N/D

**Issue Date** 11/02/2020  
**Revision Date** 05/21/2021  
**Revision Note** Date/Address change only

**N/A = Not Applicable; N/D = Not Determined**

**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**