SAFETY DATA SHEET

Issue Date 09-24-2019 **Revision Date** 09-24-2019 **Version** 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: EVAPORATOR-CORE CLEANER

Other means of identification

Common Name: 1052
UN/ID No UN1950
Synonyms None
Product Categories Aerosol, Foam Cleaner

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
MOC PRODUCTS CO., INC.
12306 Montague Street
Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500
Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Skin sensitization	Category 1
Reproductive toxicity	Category 2
Flammable aerosols	Category 3

Label elements

Emergency Overview

Warning

Hazard statements
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
Contains gas under pressure; may explode if heated

Appearance Liquefied gas, Foam. **Physical state** Aerosol **Odor** Fragrant

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Pressurized container: May burst if heated
Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

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

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Other information
• Harmful to aquatic life
• Harmful to aquatic life with long lasting effects
1 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Isobutane	75-28-5	2.5-10	*
Sodium tetraborate decahydrate	1303-96-4	0.1-1	*
Sodium nitrite	7632-00-0	0.1-1	*
Propane	74-98-6	0.1-1	*
Fragrance #175-342 Citrus	MIXTURE	0.1-1	*

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

4. FIRST AID MEASURES

First aid measures

General advice If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

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

Inhalation Move to fresh air. Call a physician if irritation develops and persists.

Eye contact Rinse with plenty of water. Call a physician if irritation develops and persists.

Ingestion Aerosol, Ingestion hazard: Not expected. Do not induce vomiting. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically. Do not induce vomiting. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction: Rash. Eye irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider See Section 8 for information on appropriate personal protective equipment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Water, Foam, Dry chemical, Carbon dioxide (CO2).

Small Fire Dry chemical or CO2.

Large Fire Water spray or fog, Foam.

Explosive properties: Pressurized container: May burst if heated. Fire or intense heat may cause violent rupture of packages.

Specific hazards arising from the chemical
Contents under pressure. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Smoke, Hydrocarbons.

Specific methods:
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Special firefighting procedures:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk. In a fire or if heated, a pressure increase will occur and container may burst. Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Pay attention to flashback. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. See Section 8 for information on appropriate personal protective equipment.

For emergency responders Remove all sources of ignition. Ventilate the area. Use personal protection recommended in Section 8. Wear respiratory protection. Pay attention to flashback. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent runoff to sewers, streams or other bodies of water. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk. Use non-sparking tools.

Methods for clean-up: Isolate area until gas has dispersed. Ventilate the area. Use only non-sparking tools. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Pressurized container: Do not pierce or burn, even after use. Protect from physical damage. Do not store at temperatures above 50°C (120°F). Protect from freezing (<0°C, or 32°F). Protect from direct sunlight. Store in a cool, well ventilated area. Keep product and empty container away from heat and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers retain product residue and can be hazardous. Keep away from any incompatible materials (See Section 10).

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Ensure adequate ventilation, especially in confined areas: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Materials to avoid: Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Isobutane 75-28-5	STEL: 1000 ppm explosion hazard	Not established	TWA: 800 ppm TWA: 1900 mg/m³
Sodium tetraborate decahydrate 1303-96-4	STEL: 6 mg/m³ inhalable particulate matter TWA: 2 mg/m³ inhalable particulate matter	TWA: 10 mg/m³	TWA: 5 mg/m³ TWA: 1 mg/m³
Sodium nitrite 7632-00-0	-	Not established	-
Propane 74-98-6	: See Appendix F: Minimal Oxygen Content, explosion hazard	TWA: 1000 ppm TWA: 1800 mg/m³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³
Fragrance #175-342 Citrus MIXTURE	-	-	-

Appropriate engineering controls

Engineering measures: Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Chemical resistant gloves: (consult with the specific manufacturer to confirm performance).

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Aerosol		
Appearance	Liquefied gas, Foam.	**Odor**	Fragrant
Color	Hazy, Colorless.	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	8.5-9.5	
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 100 °C / 212 °F	Of liquid
Flash point	-104.4 °C / -156.0 °F	(Propellant), Estimated
Evaporation rate	< 1	n-Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	9.4%	
Lower flammability limit	1.8%	
Vapor pressure	345-414 (kPa)	@ 20 °C
Vapor density	>1 (air = 1)	Heavier than air
Specific Gravity	0.934	Estimated
Water solubility	Completely soluble	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	9-10 %
Density	0.91-0.95 g/cc (Aerosol), 0.98-1.02 g/cc (Liquid)
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity	Stable under normal storage and handling conditions.	Material is normally stable at ambient temperature and pressure.

Chemical stability

Possibility of Hazardous Reactions	None under normal processing
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Heat. Temperatures above 50 °C. Incompatible materials.

Incompatible materials

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information May cause allergic skin reaction. Suspected of damaging fertility or the unborn child.

Inhalation Propellant is a simple asphyxiant.

Eye contact May cause irritation.

Skin Contact May cause allergic skin reaction: Rash, Dermatitis.

Ingestion Not an expected route of exposure. Expected to be a low ingestion hazard.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobutane 75-28-5	-	-	= 658 mg/L (Rat) 4 h
Sodium tetraborate decahydrate 1303-96-4	= 3493 mg/kg (Rat) = 2660 mg/kg (Rat)	> 10000 mg/kg (Rabbit) > 2000 mg/kg (Rabbit)	> 2 mg/m³ (Rat) 4 h
Sodium nitrite 7632-00-0	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h
Propane 74-98-6	-	>5000 mg/kg (Rabbit)	> 800000 ppm (Rat) 15 min
Fragrance #175-342 Citrus MIXTURE	-	-	-

Information on toxicological effects

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

Sensitization Skin Sensitization: May cause allergic skin reaction. Respiratory Sensitization: Not classified.

Mutagenic effects: No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium tetraborate decahydrate 1303-96-4		Group 2A		
Sodium nitrite 7632-00-0		Group 2A		

Reproductive toxicity Product is or contains a chemical or chemicals which is/are (a) known or suspected reproductive hazard(s): Sodium Tetraborate Decahydrate (CAS#1303-96-4), Fragrance #175-342 Citrus (Mixture).

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Chronic toxicity No information available.

Target Organ Effects Skin, Eyes, Respiratory system.

Neurological effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Aspiration hazard Not expected: Aerosol.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 1 % of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 8237 mg/kg

ATEmix (inhalation-vapor) 504 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity: Harmful to aquatic life. Chronic Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

12 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium tetraborate decahydrate 1303-96-4	2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 158: 96 h Desmodesmus subspicatus mg/L EC50	340: 96 h Limanda limanda mg/L LC50		1085 - 1402: 48 h Daphnia magna mg/L LC50
Sodium nitrite 7632-00-0		0.19: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.65 - 1: 96 h Oncorhynchus mykiss mg/L LC50 static 20: 96 h Pimephales promelas mg/L LC50 static 2.3: 96 h Pimephales promelas mg/L LC50 flow-through 0.092 - 0.13: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.4 - 0.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static		

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility
Soluble in water.

Chemical Name	Partition coefficient
Isobutane 75-28-5	2.76
Propane 74-98-6	2.36

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Limited quantity (LQ) <1 liter

DOT

UN/ID No	UN1950
Proper Shipping Name:	Aerosols
Hazard Class	2.2
Packing Group:	N/A
Emergency Response Guide Number	126

IATA

UN/ID No	UN1950
Proper Shipping Name:	Aerosols
Hazard Class	2.2
Packing Group:	N/A

IMDG

UN/ID No	UN1950
Proper Shipping Name:	Aerosols
Hazard Class	2
Packing Group:	N/A

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
Sodium nitrite 7632-00-0	7632-00-0	0.1-1	1.0 % de minimis concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite 7632-00-0	100 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium nitrite 7632-00-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating

Health hazards 1

Flammability -
Instability 0
Physical and Chemical Properties NFPA Level 1 aerosol
HMIS Rating
Health hazards 1*
Flammability 2
Physical hazards 0
Personal protection B, Flammability classification is under HMIS III
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Prepared by	Environmental Health and Safety Department
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Revision Note	

Formula. The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 2, 3 ,4, 5, 8, 10, 11, 15,16.

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