



VAPORIZE®
POWERAG™

SAFETY DATA SHEET

Issue date: 16-Feb-2025

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Vaporize

1.2. Other means of identification

Product code: FM00144

Synonyms: None

1.3. Recommended use of the chemical and restrictions on use

Recommended use: Water treatment chemical

Uses advised against: No information available

1.4. Details of the supplier of the safety data sheet

PowerAG

2213 Leabrook Road, Lancaster PA 17601

powerag.com

1.5. Emergency telephone number

Company phone number: 800-842-2578

Emergency telephone: ChemTrec: 800-424-9300 | ChemTrec: 703-527-3887 | Poison Control Center: 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity – Oral: Category 4

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 1

2.2. Label elements

Emergency overview

Danger



Hazard statements:

Harmful if swallowed

Causes skin irritation

Causes serious eye damage

Appearance: Clear liquid | **Physical state:** Liquid | **Odor:** Characteristic

Precautionary statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements – Response

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/physician.

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Precautionary statements – Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Hazards not otherwise classified (HNOC)

Not applicable

2.4. Other Information

May be harmful in contact with skin

2.5. Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Chemical name	CAS No	Weight-%
Monocarbamide dihydrogen sulfate*	21351-39-3	60-100
Amines, tallow alkyl, ethoxylated*	61791-26-2	1-5

*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: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation persists, call a physician.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: May cause skin irritation. May cause redness and tearing of the eyes. May result in permanent damage including blindness.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Runoff may pollute waterways.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

5.3. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Methods for containment: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

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Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible materials: Strong oxidizing agents, strong acid, strong bases

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

8.2. Appropriate engineering controls

Engineering Controls: Showers, eyewash stations, and ventilation systems

8.3. Individual protection measures, such as personal protective equipment

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

Skin and body protection: Wear protective gloves and protective clothing.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear liquid

Color: Yellow

Odor: Characteristic

Odor threshold: No information available

Property	Remarks/Methods
pH: ~2	Solution (1%)
Melting point / freezing point: No information available	
Boiling point / boiling range: No information available	
Flash point: >125 °C	
Evaporation rate: No information available	
Flammability (solid, gas): No information available	
Flammability limit in air:	
Upper flammability limit: No information available	
Lower flammability limit: No information available	
Vapor pressure: ~5 mmHg	@ 25 °C
Vapor density: No information available	
Relative density: 1.45–1.55 g/mL	@ 20 °C
Water solubility: Partially soluble	
Solubility in other solvents: No information available	
Partition coefficient: No information available	
Autoignition temperature: >650 °C	
Decomposition temperature: No information available	
Kinematic viscosity: No information available	
Dynamic viscosity: No information available	
Explosive properties: No information available	
Oxidizing properties: No information available	



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9.2. Other information

Softening point: No information available

Molecular weight: No information available

VOC Content (%): No information available

Density: No information available

Bulk density: No information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur

10.4. Conditions to avoid

Elevated temperature and incompatible materials

10.5. Incompatible materials

Strong oxidizing agents, strong acids, and strong bases

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on likely routes of exposure

Product Information

Inhalation: Based on available data, the classification criteria are not met.

Eye contact: Corrosive to the eyes and may cause severe damage including blindness.

Skin contact: Irritating to skin.

Ingestion: Harmful if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Monocarbamide dihydrogen sulfate 21351-39-3	= 350 mg/kg (Rat)	> 2000 mg/kg (Rat)	–
Amines, tallow alkyl, ethoxylated 61791-26-2	= 500 mg/kg (Rat)	–	–

11.2. Information on toxicological effects

Symptoms: May cause skin irritation. May cause redness and tearing of the eyes. May result in permanent damage including blindness.

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

Sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

(STOT) Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

(STOT) Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.4. Numerical measures of toxicity – Product information

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

ATEmix (oral): 1,876.00 mg/kg

ATEmix (dermal): 6,954.00 mg/kg

ATEmix (inhalation-dust/mist): 2,135.00 mg/l

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Harmful to aquatic life

12.2. Persistence and degradability

No information available



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12.3. Bioaccumulation

Not likely to bioaccumulate

12.4. Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

Contaminating packaging: Do not reuse container

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated

TDG: Not regulated

IATA: Not regulated

IMDG: Not regulated

SECTION 15: REGULATORY INFORMATION

15.1. International inventories

TSCA: Complies

DSL/NDSL: Complies

EINECS/ELINCS: Complies

IECSC: Complies

KECL: Complies

PICCS: Complies

AICS: Complies

15.2. 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

15.3. US Federal Regulations

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.

SARA 311/312 hazard categories

Acute health hazard: Yes

Chronic health hazard: No

Fire hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

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)

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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material



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15.4. US State Regulations

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

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

16.1. Other information

NFPA **Health hazards:** 3 **Flammability:** 1 **Instability:** 0

HMIS **Health hazards:** 3 **Flammability:** 1 **Instability:** 0

Physical and Chemical Properties -

Personal protection X

Issue Date: 16-Feb-2025

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Revision Note: No information available

16.2. Procedure used to derive the classification

Justification: Calculation method

16.3. Disclaimer

The information provided in this Material 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