



SAFETY DATA SHEET

Harvard Chemical Research, Inc.

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Version 1

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

Product identifier

Product Name BOOSTER POWDER

Other means of identification

Product Code 403
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Oxygen Powder Booster
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address
Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone number

Company Phone Number 1-404-761-0657
24 Hour Emergency Phone Number 800-424-9300
Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

| | |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |
|-----------------------------------|------------|

Label elements

Emergency Overview

Warning

Hazard statements

Causes serious eye irritation



Appearance No information available

Physical state Granular

Odor Pleasant

Hazards not otherwise classified (HNOC)**Other Information**

- May be harmful if swallowed
- Harmful to aquatic life with long lasting effects

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| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
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| Chemical Name | CAS No. | Weight-% | Trade Secret |
|------------------|----------|----------|--------------|
| Sodium Carbonate | 497-19-8 | <60 | * |

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

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| 4. FIRST AID MEASURES |
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First aid measures

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| General advice | Severe irritant to eyes. Gastric pain and vomiting if ingested. Irritation to respiratory system. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin Contact | Rinse with clear water. |
| Inhalation | Remove to fresh air. If breathing does not return to normal, seek medical attention. |
| Ingestion | Immediately drink large quantities of water. Get medical attention. |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

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| 5. FIRE-FIGHTING MEASURES |
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Suitable extinguishing media

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

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

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 Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep it up and dispose in accordance with federal and state regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container closed when not in use. Keep out of reach of children. Do not freeze. Follow label instructions.

Incompatible materials Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles with side shields.

Skin and body protection Wear Neoprene or protective rubber gloves. Suitable protective clothing. Drenching safety shower and eye wash station.

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 Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------|-----------------------|--------------------------|
| Physical state | Granular | Odor | Pleasant |
| Appearance | White Powder | Odor threshold | No information available |
| Color | White | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------|--------------------------|-------------------------|
| pH | NA | |
| Melting point/freezing point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash point | No information available | |
| 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 | No information available | |
| Vapor density | No information available | |
| Specific Gravity | .12 | |
| Water solubility | 15% | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| 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 | |

Other Information

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|------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | 1.0 |
| Bulk density | No information available |

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| 10. STABILITY AND REACTIVITY |
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Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

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| Hazardous polymerization | Hazardous polymerization does not occur. |
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Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong acids.

Hazardous Decomposition ProductsCarbon monoxide. Carbon dioxide (CO₂). heat.

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| 11. TOXICOLOGICAL INFORMATION |
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Information on likely routes of exposure

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|----------------------------|-----------------------------------|
| Product Information | No data available |
| Inhalation | Irritating to respiratory system. |
| Eye contact | Severely irritating to eyes. |
| Skin Contact | No data available. |
| Ingestion | Gastric pain and vomiting. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------|----------------------|-------------|--------------------------------------|
| Sodium Carbonate 497-19-8 | = 4090 mg/kg (Rat) | - | = 2300 mg/m ³ (Rat) 2 h |

Information on toxicological effects

Symptoms No information available.

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

| | |
|---------------------------------|---------------------------|
| Sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

15% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|------------------------------|--------------------------------|---|--------------------------------------|
| Sodium Carbonate 497-19-8 | 242: 120 h Nitzschia mg/L EC50 | 300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static | 265: 48 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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|-------------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Do not reuse container. |

| Chemical Name | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Sodium Carbonate 497-19-8 | Corrosive |

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION**International Inventories**

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

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**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

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

