



Revision Date: 27-March-2024

Revision Number: 3

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

1. Identification

Product Identifier

Product Name Wet Chemical Agent-Stored Pressure

Other Means of Identification

Product Number L1600(553230)/L3000(551242), L4600(551243), L60000(551242)

UN Number UN3503

Synonyms None

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Fire Extinguishing Agent

Uses Advised Against Consumer Use

Details of the Supplier of the Safety Data Sheet

Company Name Heiser BHC, LLC. d/b/a Heiser Logistics
35 North St., Suite 50
Canandaigua, NY 14424

E-mail Address sales@heiserusa.com

Telephone Number 800.828.9638

Emergency Telephone Number

Infotrac 800.535.5053 Domestic

01.352.323.3500 International

2. Hazard(s) Identification

Classification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Gases Under Pressure	Compressed Gas
Simple Asphyxiants	Yes
Skin Corrosion/Irritation	Category 1 Sub-Category B
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity (Single Exposure)	Category 3

Label Elements

Signal Word Danger

Hazard Statements Causes severe skin burns and eye damage.

May cause respiratory irritation.

Contains gas under pressure, may explode if heated.

May displace oxygen and cause rapid suffocation.



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Precautionary Statements - Prevention

Do not breathe dusts or mists.
Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/clothing and eye/face protection.
Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor.
Specific treatment (see supplemental first aid instructions on this label)
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.
IF ON SKIN: (or hair) Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Protect from sunlight.

Precautionary Statements - Disposal

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

Hazards Not Otherwise Classified (HNOC)

Not applicable.

Other Information

May be harmful if swallowed. May be harmful in contact with skin.

3. Composition/Information on Ingredients

Substance Not applicable

Mixture This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS Number	Weight-%	Trade Secret
Potassium Carbonate	584-08-7	40-50	*

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



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4. First-Aid Measures

Description of First-Aid Measures

General Advice

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

Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.

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. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin Contact

In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.

Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-Protection of the First-Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Burning sensation

Effects of Exposure

No information available.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. Fire-Fighting Measures

Suitable Extinguishing Media

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

Large Fire

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

Unsuitable Extinguishing Media

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Specific Hazards Arising from the Chemical

Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.



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Explosion Data

Sensitivity to Mechanical Impact Yes

Sensitivity to Static Discharge None

Special Protective Equipment and Precautions for Firefighters 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 Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

For Emergency Responders Use personal protection recommended in Section 8.

Environmental Precautions

Environmental Precautions Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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 Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Protect from moisture. Store locked up. Keep out of reach of children. Store away from other materials.



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8. Exposure Controls/Personal Protection

Control Parameters

Exposure Limits

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

Tight sealing safety goggles. Face protection shield.

Hand Protection

Wear suitable gloves. Impervious gloves.

Skin/Body Protection

Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.

Ventilation

Use local exhaust or general dilution ventilation to control exposure with applicable limits.

General Hygiene Considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State

Liquid

Appearance

No information available.

Color

No information available.

Odor

No information available.

Odor Threshold

No information available.

Property

Values

Remarks • Method

pH

12.5 - 13.5

pH (as Aqueous Solution)

None known.

Melting Point/Freezing Point

No data available.

None known.

Initial Boiling Point and Boiling Range

> 100°C/212°F



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Flash Point	No data available.	
Evaporation Rate	No data available.	None known.
Flammability	No data available.	None known.
Flammability Limit in Air		None known.
Upper Flammability or Explosive Limits	No data available.	
Lower Flammability or Explosive Limits	No data available.	
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(ies)	No data available.	None known.
Partition Coefficient	No data available.	None known.
Autoignition Temperature	No data available.	None known.
Decomposition Temperature		None known.
Kinematic Viscosity	No data available.	None known.
Dynamic Viscosity	No data available.	None known.
<u>Other Information</u>		
Explosive Properties	No information available.	
Oxidizing Properties	No information available.	
Softening Point	No information available.	
Molecular Weight	No information available.	
VOC Content	No information available.	
Liquid Density	14	
Refractive Index	1.3990 - 1.4072	
Bulk Density	1.32 - 1.52 g/ml	

10. Stability and Reactivity

Reactivity	No information available.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Excessive heat. Exposure to air or moisture over prolonged periods.
Incompatible Materials	Acids. Bases. Oxidizing Agent.
Hazardous Decomposition Products	Carbon Oxides. Oxygen. Potassium. Thermal decomposition can lead to release of irritating and toxic gases and vapors.



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11. Toxicological Information

Information on Likely Routes of Exposure

Product Information

Inhalation

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye Contact

Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

Skin Contact

Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May be harmful in contact with skin.

Ingestion

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms

Redness. Burning. May cause blindness. Coughing and/or wheezing.

Acute Toxicity

Numerical Measures of Toxicity

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

ATEmix (oral)	4,561.00 mg/kg
ATEmix (dermal)	4,878.00 mg/kg
ATEmix (inhalation-dust/mist)	12.10 mg/l

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Carbonate 584-08-7	=1870 mg/kg (Rat)	>20000 mg/kg (Rabbit)	> 4.96 mg/L (Rat) 4.5 h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Skin Corrosion/Irritation

Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious Eye Damage/Eye Irritation

Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

Respiratory or Skin Sensitization

No information available.



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Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT-Single Exposure	May cause respiratory irritation.
STOT-Repeated Exposure	No information available.
Aspiration Hazard	No information available.
Other Adverse Effects	No information available.
Interactive Effects	No information available.

12. Ecological Information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Potassium Carbonate 584-08-7	-	-	-	LC50 =630mg/L (48h, Ceriodaphnia dubia)

Persistence and Degradability	No information available.
Bioaccumulation	There is no data for this product.
Other Adverse Effects	No information available.

13. Disposal Considerations

Disposal Methods

Waste from Residues/Unused Products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated Packaging	Do not reuse empty containers.
US EPA Waste Number	D002

14. Transport Information

DOT

UN Number or ID Number	UN3503
UN Proper Shipping Name	Chemical under pressure, corrosive, n.o.s
Transport Hazard Class(es)	2.2
Subsidiary Hazard Class	8
Special Provisions	362, T50, TP40
DOT Marine Pollutant	NP
Description	UN3503, Chemical under pressure, corrosive, n.o.s.(Nitrogen, Potassium carbonate mixture), 2.2, 8
Emergency Response Guide Number	125



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TDG

UN Number or ID Number	UN3503
UN Proper Shipping Name	Chemical Under Pressure, Corrosive, n.o.s.
Transport Hazard Class(es)	2.2
Subsidiary Hazard Class	8
Special Provisions	16,130
Description	UN3503, Chemical under pressure, corrosive, n.o.s.(Nitrogen, Potassium carbonate mixture), 2.2, 8
MEX	Not regulated

ICAO (Air)

UN Number or ID Number	UN3503
UN Proper Shipping Name	Chemical under pressure, corrosive, n.o.s.
Transport Hazard Class(es)	2.2
Subsidiary Hazard Class	8
Special Provisions	A1, A187
Description	UN3503, Chemical under pressure, corrosive, n.o.s.(Nitrogen, Potassium carbonate mixture), 2.2, 8

IATA

UN Number or ID Number	UN3503
UN Proper Shipping Name	Chemical under pressure, corrosive, n.o.s.
Transport Hazard Class(es)	2.2
Subsidiary Hazard Class	8
Technical Name	Potassium Carbonate
Description	UN3503, Chemical under pressure, corrosive, n.o.s.(Nitrogen, Potassium carbonate mixture), 2.2, 8
Special Provisions	A1, A187
ERG Code	2C

IMDG

UN Number or ID Number	UN3503
UN Proper Shipping Name	Chemical under pressure, corrosive, n.o.s.
Transport Hazard Class(es)	2.2
EmS-No	F-C S-V
Special Provisions	274, 362
Description	UN3503, Chemical under pressure, corrosive, n.o.s.(Nitrogen, Potassium carbonate mixture), 2.2, 8



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15. Regulatory Information

International Inventories

TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	Complies.
PICCS	Complies.
AIIC	Complies.
NZIoC	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
AIIC	Complies.
NZIoC	Complies.

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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.

US State Regulations



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California Proposition 65

This product does not contain any Proposition 65 chemicals.

US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Nitrogen 7727-37-9	X	X	X

US EPA Label Information

EPA Pesticide Registration Number

Not applicable.

16. Other Information

NFPA	Health Hazards 3	Flammability 0	Instability 0	Special Hazards -
HMIS	Health Hazards 3	Flammability 0	Physical Hazards 3	Personal Protection X

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet

Legend Section 8 Exposure Controls/Personal Protection

TWA	TWA	STEL	STEL
	(Time-Weighted Average)		(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)
National Institute of Technology and Evaluation (NITE)
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



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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 ***Indicates updated data since last publication.

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

Data used to compile this data sheet are from Pyro-Chem Safety Data Sheet, March 27, 2024.