



PBW

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Issue date: 3/9/2022
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Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PBW

1.2. Recommended use and restrictions on use

Recommended use : Cleaner

1.3. Supplier

Manufacturer

Five Star Chemicals & Supply Inc
6870 W. 52nd Ave, Suite #205
Arvada, CO 80002
T (303)287-0186

Distributor

1.4. Emergency telephone number

Emergency number : International (Infotrac): +1 (800) 535-5053;
US/Canada (Infotrac): 1-800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral)
Skin Irrit. 2
Eye Irrit. 2A

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements (GHS) :

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product

Wear protective gloves, eye protection.

If swallowed: Call a poison center or doctor if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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If eye irritation persists: Get medical advice/attention.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity

2.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Disodium carbonate	Disodium carbonate Sodium carbonate / Carbonic acid, disodium salt / Soda ash / Sodium carbonate (2:1) / Sodium carbonate, anhydrous / Carbonic acid sodium salt (1:2) / SODIUM CARBONATE / Bisodium carbonate / Sodium carbonate anhydrous / sodium carbonate	CAS-No.: 497-19-8	30 – 60
Sodium percarbonate	Sodium percarbonate Carbonic acid disodium salt, compound with hydrogen peroxide (H2O2) (2:3) / Carbonic acid, disodium salt, compound with hydrogen peroxide (H2O2) (2:3) / Disodium carbonate, compound with hydrogen peroxide (2:3) / Sodium carbonate peroxide / Sodium carbonate peroxyhydrate / SODIUM CARBONATE PEROXIDE / Carbonic acid disodium salt, compound with hydrogen peroxide (2:3) / Carbonic acid, disodium salt, compound with hydrogen peroxide (2:3) / Sodium percarbonate peroxyhydrate / Carbonic acid sodium salt (1:2), compound with hydrogen peroxide (H2O2) (2:3) / Disodium carbonate, hydrogen peroxide (2:3) / Disodium peroxocarbonate / Compound of sodium carbonate with hydrogen peroxide (2:3) / Compound of sodium carbonate with hydrogen peroxide(2:3)	CAS-No.: 15630-89-4	10 – 30
Tetrasodium EDTA	Tetrasodium EDTA Ethylenediaminetetraacetic acid, tetrasodium salt / Tetrasodium ethylenediaminetetraacetate / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4) / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt / TETRASODIUM EDTA / Tetrasodium edetate / EDTA tetrasodium salt / EDTA, tetrasodium / Acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt / Tetrasodium salt of ethylenediaminetetraacetic acid / N,N'-1,2-Ethanediylbis(N-(carboxymethyl)glycine) tetrasodium salt / Tetrasodium 2,2',2'',2'''-(ethylenedinitrilo)tetraacetate / Tetrasodium ethylene diamine tetraacetate / edetate sodium / Edetate sodium	CAS-No.: 64-02-8	5 – 10

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Name	Chemical name / Synonyms	Product identifier	%
Sodium metasilicate	Disodium metasilicate / Silicate, disodium / Silicic acid (H ₂ SiO ₃), disodium salt / Sodium metasilicate, anhydrous / Silicic acid, disodium salt / Disodium metasilicate (Na ₂ SiO ₃) / Disodium trioxosilicate / Silicic acid (H ₂ SiO ₃), sodium salt (1:2) / SODIUM METASILICATE / Silicic acid, sodium salt (1:2) / Sodium silicate	CAS-No.: 6834-92-0	1 - 3
Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt	Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt Ethylenediamine-triacetate, trisodium / Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, sodium salt (1:3) / Trisodium ethylenediamine diacetate / N-(Carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl] glycine, sodium salt (1:3) / Trisodium 2,2'-({2-[(carboxylatomethyl)amino]ethyl}imino)diacetate	CAS-No.: 19019-43-3	0.5 - 1.5

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. irritating vapours.
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5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid generating and breathing dust. Do not swallow. When using do not eat, drink or smoke. Handle and open container with care. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available
Disodium carbonate (497-19-8)
No additional information available

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Sodium percarbonate (15630-89-4)

No additional information available

Tetrasodium EDTA (64-02-8)

No additional information available

Glycine, N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, trisodium salt (19019-43-3)

No additional information available

Sodium metasilicate (6834-92-0)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Wear eye protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granules. Powder.
Colour	: White
Odour	: No data available
Odour threshold	: No data available
pH	: 11.55 (10% Solution) (Acid reserve: 1.38)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

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Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. irritating vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

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ATE CA (oral)	1901.461 mg/kg bodyweight
Unknown acute toxicity (GHS CA)	2.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
Disodium carbonate (497-19-8)	
LD50 oral rat	4090 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:
ATE CA (oral)	2800 mg/kg bodyweight

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Sodium percarbonate (15630-89-4)	
LD50 oral rat	1034 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:EPA Guideline
ATE CA (oral)	1034 mg/kg bodyweight
Tetrasodium EDTA (64-02-8)	
LD50 oral rat	1658 mg/kg
ATE CA (oral)	1210 mg/kg bodyweight
Sodium metasilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 inhalation rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
ATE CA (oral)	1153 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation. pH: 11.55 (10% Solution) (Acid reserve: 1.38)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 11.55 (10% Solution) (Acid reserve: 1.38)
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
Sodium metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: No additional information available.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Not applicable.
12.2. Persistence and degradability	
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Persistence and degradability	Not established.

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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Recycle empty containers where allowed.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available.			

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

DOT

No data available

TDG

No data available

IMDG

No data available

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IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Revision date : 03/09/2022

Other information : None.

Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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