



SAFETY DATA SHEET

Issue Date 12-Jun-2009

Revision Date 20-Dec-2013

Version 1

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

1.1. Product Identifier

SDS # FSC-001
Product Name PBW

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Cleaning agent

1.3. Details of the Supplier of the Safety Data Sheet

Supplier

Five Star Chemicals & Supply, Inc.
4915 E. 52nd Ave.
Commerce City, CO 80022

Importer

Brouwland bvba
Korpelsesteenweg 86
3581 Beverlo, Belgium
0032 (0) 11/40.14.08

For further information, please contact

Contact Point Five Star Chemicals & Supply, Inc. 1-303-287-0186
Email Address support@fivestarchemicals.com

1.4. Emergency Telephone Number

For product information in case of emergency call 0032-(0) 14 58 45 45

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Skin Corrosion/Irritation	Category 1 sub-category B
Specific target organ toxicity (single exposure)	Category 3
Corrosive to metals	Category 1

Classification according to 67/548/EEC

Full text of R-phrases: see section 16

2.2. Label Elements**Signal Word**

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

H290- May be corrosive to metals

Precautionary Statements - EU (S28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P304 + P340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 - Immediately call a POISON CENTER or doctor/physician

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405 - Store locked up

P501 - Rinse empty container and dispose of container in accordance with local regulations

2.3. Other Hazards**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Sodium metasilicate	Present	6834-92-0	20-35	C; R34 Xi; R37	Acute Tox 4- H302 Skin Corr. 1B (H314) STOT SE 3 (H335) Met. Corr. 1 (H290)	Not determined
Sodium percarbonate	239-707-6	15630-89-4	<25	O; 08 Xn; R22 Xi; R41	Ox sol – H272 Acute Tox 4- H302 Eye Dam 1 – H318	
Sodium Carbonate	207-838-8	497-19-8	20-30%	Xi; R36	Eye irri 2: H319	Not determined
proprietary		proprietary	<5%	Xi; R36	Eye irri 2: H319	Not Determined

Full text of R-phrases: see section 16**Full text of H- and EUH-phrases: see section 16**

Section 4: FIRST AID MEASURES**4.1. Description of First Aid Measures**

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.
Inhalation	Remove to fresh air. Seek medical attention if irritation persists.
Ingestion	Do NOT induce vomiting. If conscious, give water or milk. Call a physician or poison control center immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms	May cause eye burns and permanent eye damage. Contact may cause irritation and redness. May cause nausea, vomiting, stomach ache, and diarrhea. May cause irritation to the mucous membranes and upper respiratory tract.
-----------------	---

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
---------------------------	------------------------

Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing Media****Suitable Extinguishing Media**

Water. Carbon dioxide (CO₂). Foam.

Unsuitable Extinguishing Media

None known

5.2. Special Hazards Arising from the Substance or Mixture

None known Product is not flammable or combustible

5.3. Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Wear a dust mask. Use personal protective equipment as required.

For Emergency Responders

Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Collect spillage.

6.3. 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 up and shovel into suitable containers for disposal. Flush residue with water. Clean up in accordance with all applicable regulations.

6.4. Reference to Other Sections

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE**7.1. Precautions for Safe Handling****Advice on Safe Handling**

Use personal protection recommended in Section 8. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Wash face, hands, and any exposed skin thoroughly after handling.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for Safe Storage, Including any Incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

7.3. Specific End Use(s)**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. 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.

8.2. Exposure Controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection	Tight sealing safety goggles.
Hand Protection	Rubber or PVC gloves are recommended.
Skin and Body Protection	Suitable protective clothing.
Respiratory Protection	A dust mask is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

Physical State	Solid	Odor	Odorless
Appearance	White powder		
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11-12	(1% solution)
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	Not flammable	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not flammable	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	Not determined	
Water Solubility	<10%	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not an oxidizer	
<u>9.2 Other Information</u>		
Bulk Density	64 lbs/cu ft	

Section 10: STABILITY AND REACTIVITY

10.1.Reactivity

Not reactive under normal conditions.

10.2.Chemical Stability

Stable under dry conditions, will pick up water.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3.Possibility of Hazardous Reactions

Possibility of Hazardous Reactions

None under normal processing.

10.4.Conditions to Avoid

Contact with incompatible materials.

10.5.Incompatible Materials

Acids.

10.6.Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity

Eye Contact Causes serious eye damage.

Skin Contact Causes skin irritation.

Inhalation

Ingestion

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate	= 1034 mg/kg (Rat)		

STOT - Single Exposure May cause respiratory irritation.

Symptoms Please see section 4 of this SDS for symptoms.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium metasilicate		210: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static 210: 96 h <i>Brachydanio rerio</i> mg/L LC50	216: 96 h <i>Daphnia magna</i> mg/L EC50

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

Not determined.

12.4. Mobility in Soil

Mobility in soil

Not determined.

12.5. Results of PBT and vPvB Assessment

Not determined.

12.6. Other Adverse Effects

Not determined

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues / Unused Products

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

Contaminated Packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION**IMDG**

- 14.1 UN/ID No: UN3262
14.2 PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE)
14.3 HAZARD CLASS: 8
14.4 PACKING GROUP: II
14.5 LABELING REQUIREMENTS: 8
14.6
14.7

RID

- 14.1 UN/ID No: UN3262
14.2 PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE)
14.3 HAZARD CLASS: 8
14.4 PACKING GROUP: II
14.5 LABELING REQUIREMENTS: 8
14.6
14.7

ADR

- 14.1 UN/ID No: UN3262
14.2 PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE)
14.3 HAZARD CLASS: 8
14.4 PACKING GROUP: II
14.5 LABELING REQUIREMENTS: 8
14.6
14.7

ICAO (air)

- 14.1 UN/ID No: UN3262
14.2 PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE)
14.3 HAZARD CLASS: 8
14.4 PACKING GROUP: II
14.5 LABELING REQUIREMENTS: 8
14.6
14.7

IATA

- 14.1 UN/ID No: UN3262
14.2 PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (SODIUM METASILICATE)
14.3 HAZARD CLASS: 8
14.4 PACKING GROUP: II
14.5 LABELING REQUIREMENTS: 8
14.6
14.7

Section 15: REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

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

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

Section 16: OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

R34 - Causes burns

R37 - Irritating to respiratory system

Classification procedure

Calculation method

Issue Date	12-Jun-2009
Revision Date	20-Dec-2013
Revision Note	New format.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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