

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 2020-04-23 Revision date: 2020-04-23 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form Mixture Product name PBW

Relevant identified uses of the substance or mixture and uses advised against 1.2.

Relevant identified uses 1.2.1.

Use of the substance/mixture : Cleaner

Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

Manufacturer

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

T (303)287-0186

Distributor

Brouwland

Korspelsesteenweg 86, 3581 Beverlo, Belgium T: +32 11 40 14 08

Emergency telephone number

For product information or in case of

Emergency, Call

: 0032 (0) 14 58 45 45 (Telephone advice: English, French, German, Dutch):

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Met. Corr. 1 Skin Corr. 1B H314 Eye Dam. 1 H318 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05

Signal word (CLP) Danger

Hazard statements (CLP) H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Precautionary statements (CLP) 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 poiston

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.

Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Disodium metasilicate	(CAS-No.) 6834-92-0 (EC-No.) 229-912-9 (EC Index-No.) 014-010-00-8 (REACH Reg. No.) 01-2119449811-37-XXXX	20 – 35	Skin Corr. 1B, H314 STOT SE 3, H335 Met. Corr. 1, H290
Sodium percarbonate	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH Reg. No.) 01-2119457268-30-XXXX	15 – 30	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Ox. Sol. 3, H272
Disodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2 (REACH Reg. No.) 01-2119485498-19-XXXX	20 – 30	Eye Irrit. 2, H319
Ethylenediaminetetraacetic acid	(CAS-No.) 60-00-4 (EC-No.) 200-449-4 (EC Index-No.) 607-429-00-8 (REACH Reg. No.) 01-2119486399-18-XXXX	1 – 5	Eye Irrit. 2, H319
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	1 - 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sodium percarbonate	(CAS-No.) 15630-89-4 (EC-No.) 239-707-6 (REACH Reg. No.) 01-2119457268-30-XXXX	(7.5 ≤C < 25) Eye Irrit. 2, H319 (25 <c 1,="" 100)="" dam.="" eye="" h318<="" td="" ≤=""></c>
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 ≤C < 2) Skin Irrit. 2, H315 (0.5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Desc	ription of first	aid measures
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First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call

a POISON CENTER/doctor.

First-aid measures after skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. Immediately call a POISON

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an First-aid measures after ingestion

unconscious person. Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation. Causes severe damage to the respiratory tract.

Symptoms/effects after skin contact Causes severe skin burns. Symptoms may include redness, edema, drying, defatting and

cracking of the skin.

Symptoms/effects after eye contact Causes serious eye damage. Symptoms may include redness, pain, blisters. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat,

and gastrointestinal tract.

Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet.

Special hazards arising from the substance or mixture

: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of Fire hazard

sodium. Thermal decomposition generates: Corrosive vapours.

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5.3. Advice for firefighters

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

Vacuum or sweep material and place in a disposal container. Provide ventilation. Minimise generation of dust.

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

: Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid generating and breathing dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended.

Hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Comply with applicable regulations.

Storage conditions

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

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2	2)	
United Kingdom	WEL STEL (mg/m³)	2 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

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.

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Environmental exposure controls:

Avoid release to the environment.

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 : White granules/powder

Colour : White Odour : None

Odour threshold No data available 12.5 (1% solution) pН Relative evaporation rate (butylacetate=1) No data available No data available Melting point : No data available Freezing point : No data available Boiling point No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) Not flammable No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density No data available Solubility : No data available Partition coefficient n-octanol/water No data available No data available

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available

Explosive limits : 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. Thermal decomposition generates: Corrosive vapours.

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. Dust formation. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of sodium. Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Sodium	hydroxide	(1310-73-2)

LD50 oral rat	325 mg/kg	
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Sodium hydroxide (1310-73-2)		
LD50 dermal rabbit	1350 mg/kg	
Sodium percarbonate (15630-89-4)		
LD50 oral rat	1034 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Disodium carbonate (497-19-8)		
LD50 oral rat	4090 mg/kg	
Ethylenediaminetetraacetic acid (60-00-4)		
LD50 oral rat	> 2000 mg/kg	
Skin corrosion/irritation	: Causes severe skin burns.	
	pH: 12.5 (1% solution)	
Serious eye damage/irritation	: Causes serious eye damage.	
	pH: 12.5 (1% solution)	
Respiratory or skin sensitisation	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
Carcinogenicity	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
Reproductive toxicity	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
STOT-single exposure	: May cause respiratory irritation.	
STOT-repeated exposure	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
Aspiration hazard	: Not classified.	
Additional information	: Based on available data, the classification criteria are not met.	
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.	

SECTION 12: Ecological information

: May cause long-term adverse effects in the aquatic environment. Ecology - general

Hazardous to the aquatic environment, short-

term (acute)

: Not classified.

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified.

Sodium hydroxide (1310-73-2)		
LC50 fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 1	40 mg/l	
Sodium percarbonate (15630-89-4)		
LC50 fish 1	70.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	4.9 mg/l (Exposure time: 48 h - Species: Daphnia pulex)	
Disodium carbonate (497-19-8)		
LC50 fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
LC50 fish 2	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Ethylenediaminetetraacetic acid (60-00-4)		
LC50 fish 1	34 – 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
LC50 fish 2	44.2 – 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 72h algae (1)	1.01 mg/l (Species: Desmodesmus subspicatus)	

12.2. Persistence and degradability

PBW	
Persistence and degradability	Not established.

12.3. **Bioaccumulative potential**

PBW	
Bioaccumulative potential	Not established.

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Sodium percarbonate (15630-89-4)	
BCF fish 1	(no bioaccumulation)
Disodium carbonate (497-19-8)	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

In accordance with ADR, IATA, IMDG, AND RID

14.1. UN number

UN-No. : 3262

14.2. UN proper shipping name

Proper Shipping Name : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE)

14.3. Transport hazard class(es)

Transport hazard class(es) : 8

Danger labels



14.4. Packing group

Packing group : II

14.5. Environmental hazards

Dangerous for the environment : N

Other information : 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.

- Overland transport

:

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

None.

Abbreviations and acronyms:

°C - Degrees Celsius

°F - Degrees Fahrenheit

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH - American Conference of Governmental Industrial Hygienists

ATE - Acute Toxicity Estimate

BCF – Bioconcentration Factor

BEI - Biological Exposure Index

CAS - Chemical Abstracts Service

CLP - Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

cP - centipoise (unit of dynamic viscosity)

cSt - centistokes (unit of kinematic viscosity)

DNEL - Derived No-effect Level

EC50 - Half maximal effective concentration

ECHA – European Chemicals Agency

EC-No. - European Community number

EU - European Union

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

h Houre

IATA - International Air Transport Association

IDLH - Immediately Dangerous to Life or Health

IMDG – International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

kPa – kilopascal

Kow - Octanol-Water Partition Coefficient

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

mg/I - Milligram per liter

mg/kg – Milligram per kilogram

mg/m3 - Milligram per cubic meter

Min - Minutes

NIOSH – National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

N.O.S. - Not Otherwise Specified

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

ppm - Parts per million

PVC - Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA - Time Weighted Average

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Skin Corr. 1B	H314
Eye Dam. 1	H318
STOT SE 3	H335

Full text of H- and EUH-statements:

Tull toxt of TT and Lott otatomorito.			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Met. Corr. 1	Metal Corrosion, Category 1		
Ox. Sol. 3	Oxidising Solids, Category 3		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A		

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Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H272	May intensify fire; oxidiser.		
H290	May be corrosive to metals.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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