

#### Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Issue date: 1/17/2022 Revision date: 1/28/2022 Version: 2.0

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

**Product identifier** 

Product form : Mixture

Trade name : PBW Liquid Cleaner

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use : Cleaner Use of the substance/mixture

#### Uses advised against 1.2.2.

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer

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

#### Distributor

Five Star Chemicals & Supply, LLC Olympisch Stadion 24-28 1076 DE Amsterdam - The Netherlands T +31.20.854.6030

info@urnex.com

#### **Emergency telephone number**

: International (Infotrac): +1 (352) 323-3500 ; US (Infotrac): 800-535-5053 Emergency number

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

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

Skin Irrit. 2 H315 Eye Dam. 1

Full text of hazard classes, H- and EUH-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)



Signal word (CLP) : Danger

Contains : Sodium metasilicate, Sodium hydroxide

Hazard statements (CLP) : H315 - Causes skin irritation. H318 - Causes serious eye damage.

: P264 - Wash hands thoroughly after handling.

Precautionary statements (CLP) P280 - Wear protective gloves, eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

#### Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### **Substances**

Not applicable

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#### 3.2. Mixtures

| Name  | Product identifier  | %     | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP]  |
|---|---|-------|--|
| Sodium metasilicate   | (CAS-No.) 6834-92-0<br>(EC-No.) 229-912-9<br>(EC Index-No.) 014-010-00-8<br>(REACH-no) 01-2119449811-37 | 1 – 2 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335   |
| Sodium hydroxide substance with national workplace exposure limit(s) (GB) | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(EC Index-No.) 011-002-00-6                                | < 1   | Acute Tox. 4 (Oral), H302<br>(ATE=325 mg/kg bodyweight)<br>Acute Tox. 4 (Dermal), H312<br>(ATE=1350 mg/kg bodyweight)<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318 |

#### Specific concentration limits:

| Name             | Product identifier   | Specific concentration limits  |
|------------------|--|--|
| Sodium hydroxide | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(EC Index-No.) 011-002-00-6 | ( 0.5 ≤C < 2) Skin Irrit. 2, H315<br>( 0.5 ≤C < 2) Eye Irrit. 2, H319<br>( 2 ≤C < 5) Skin Corr. 1B, H314 |
|                  | (===,  | ( 5 ≤C < 100) Skin Corr. 1A, H314  |

Full text of H- and EUH-statements: see section 16

#### **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. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both 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 damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

#### 4.3. 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**

#### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use water jet.

#### 5.2. Special hazards arising from the substance or mixture

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

sodium.

#### 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

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#### 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 : Absorb and/or

: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear

recommended personal protective equipment.

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 breathing dust/fume/gas/mist/vapours/spray. Do not

swallow. Handle and open container with care. When using do not eat, drink or smoke. Ensure adequate ventilation.

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. Keep container tightly closed. Store in a dry, cool and well-

ventilated place.

#### 7.3. Specific end use(s)

Cleaner.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

| Sodium hydroxide (1310-73-2) |  |
|------------------------------|--|
|------------------------------|--|

**United Kingdom - Occupational Exposure Limits** 

WEL STEL (OEL STEL) 2 mg/m<sup>3</sup>

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

#### 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.

#### **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 : Liquid

Appearance : No data available

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Colour : Clear Odour : None

Odour threshold : No data available

pH : 12.5 (Alkali Reserve : 1.57)

: No data available Relative evaporation rate (butylacetate=1) No data available Melting point Freezing point No data available No data available Boiling point Not applicable Flash point Not applicable Auto-ignition temperature Decomposition temperature Not applicable Flammability (solid, gas) Not flammable Vapour pressure No data available Relative vapour density at 20 °C No data available

Relative density : 1.071

Solubility : No data available
Partition coefficient n-octanol/water : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

Acid/alkaline reserve : 1.57

#### **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 acids. Strong oxidizers.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of sodium. Irritating 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.

| PBW Liquid Cleaner              |  |  |
|---------------------------------|--|--|
| ATE CLP (oral)                  | 66264.368 mg/kg  |  |
| 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)     |  |
| Sodium hydroxide (1310-73-2)    |  |  |
| LD50 oral rat                   | 325 mg/kg  |  |
| LD50 dermal rabbit              | 1350 mg/kg   |  |

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Skin corrosion/irritation : Causes skin irritation.

pH: 12.4 - 12.7 (Alkali Reserve : 1.57)

On basis of test data

Serious eye damage/irritation : Causes serious eye damage

pH: 12.4 - 12.7 (Alkali Reserve : 1.57)

On basis of test data

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.

Sodium metasilicate (6834-92-0)

NOAEL (animal/female, F0/P) > 159 mg/kg bodyweight Animal: rat, Animal sex: female

STOT-single exposure : Not classified.

Additional information : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Not classified.

Additional information : Based on available data, the classification criteria are not met.

Sodium metasilicate (6834-92-0)

NOAEL (oral, rat, 90 days)

227 – 237 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified.

Additional information : Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-

term (acute)

: Not classified.

Hazardous to the aquatic environment, long- : Not classified.

term (chronic)

| Sodium metasilicate (6834-92-0) |   |  |
|---------------------------------|---|--|
| LC50 - Fish [1]                 | 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])                           |  |
| LC50 - Fish [2]                 | 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)   |  |
| EC50 - Crustacea [1]            | 1700 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 72h - Algae [1]            | 207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |  |
| Sodium hydroxide (1310-73-2)    |   |  |
| LC50 - Fish [1]                 | 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])                             |  |
| EC50 - Crustacea [1]            | 40 mg/l   |  |

#### 12.2. Persistence and degradability

| PBW Liquid Cleaner            |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| PBW Liquid Cleaner        |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

| PBW Liquid Cleaner   |
|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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#### 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 in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

| ADR                                     | IMDG                | IATA          |  |
|---|---------------------|---------------|--|
| 14.1. UN number                         |                     |               |  |
| Not regulated                           | Not regulated       | Not regulated |  |
| 14.2. UN proper shipping name           |                     |               |  |
| Not regulated                           | Not regulated       | Not regulated |  |
| 14.3. Transport hazard class(es)        |                     |               |  |
| Not regulated                           | Not regulated       | Not regulated |  |
| 14.4. Packing group                     | 14.4. Packing group |               |  |
| Not regulated                           | Not regulated       | Not regulated |  |
| 14.5. Environmental hazards             |                     |               |  |
| Not regulated                           | Not regulated       | Not regulated |  |
| 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

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

#### 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

Relevant EU provisions transposed through retained EU law

#### 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

Detergents Directive EC648/2004 : amphoteric surfactant (<5%), nonionic surfactant (5-15%)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Indication of changes:

GHS classification. SDS update.

Abbreviations and acronyms:

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| according to | D REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.                        |
|--------------|--|
|              | °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. |
|              | CMR – Carcinogen, Mutagen, Reproductive toxin  |
|              | cP – centipoise (unit of dynamic viscosity)  |
|              | cSt – centistokes (unit of kinematic viscosity)  |
|              | DNEL – Derived No-effect Level   |
|              | DMEL – Derived Minimal 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 – Hours  |
|              | IATA – International Air Transport Association   |
|              | IC50 – Inhibition concentration  |
|              | IDLH – Immediately Dangerous to Life or Health   |
|              | IMDG – International Maritime Dangerous Goods IOELV – Indicative Occupational Exposure Limit Value           |
|              | KIFS – Swedish Chemicals Agency's (Keml's) Code of Statutes  |
|              | kPa – kilopascal   |
|              | Koc – Adsorption Coefficient   |
|              | Kow – Octanol-Water Partition Coefficient  |
|              | LC50 – Median Lethal Concentration   |
|              | LD50 – Median Lethal Dose  |
|              | LOAEL – Lowest Observed Adverse Effect level   |
|              | mg/l – Milligram per liter<br>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  |
|              | NO(A)EL – No Observed (Adverse) Effect Level   |
|              | N.O.S. – Not Otherwise Specified   |
|              | OEL – Occupational Exposure Limit PBT - Persistent, Bioaccumulative and Toxic                                |
|              | PCN – Poison Centre Notification   |
|              | PNEC – Predicted No Effect Concentration   |
|              | 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   |
|              | STOT – Specific Target Organ Toxicity SVHC – Substance of Very High Concern (CMR, vPvB, PBT)                 |
|              | TDI – Tolerable Daily Intake   |
|              | TLV - Threshold Limit Value  |
|              | TWA – Time Weighted Average  |
|              | UFI – Unique Formulation Identifier  |
|              | UN – United Nations  |
|              | vPvB - Very Persistent and Very Bioaccumulative  |
|              | WEL – Workplace Exposure Limit   |
|              | WGK – Wassergefahrdungklasse – German water quality classification   |

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.

#### Full text of H- and EUH-statements:

| an text of 11 and 2011 statements. |   |
|------------------------------------|---|
| 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 |
| H290                               | May be corrosive to metals.                   |
| H302                               | Harmful if swallowed.                         |

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| 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.  |
| Met. Corr. 1  | Corrosive to metals, Category 1  |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A                                     |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2  |
| STOT SE 3     | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |

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

| Skin Irrit. 2 | H315 | On basis of test data |
|---------------|------|-----------------------|
| Eye Irrit. 2  | H319 | On basis of test data |

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