



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

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

*** 1.1 Product identifier**

*** Trade name: Chemipro Caustic**

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

*** Technical function** Cleaning agent

*** Application of the substance / the mixture** Dishwasher formulation

*** 1.3 Details of the supplier of the safety data sheet**

*** Manufacturer/Supplier:**

Brouwland
Korspelsesteenweg 86
3581 Beverlo - België

Tel: + 32 11 40 14 08
info@brouwland.com - www.brouwland.com

*** Further information obtainable from:** + 32 16 53 07 96

*** 1.4 Emergency telephone number:**

National Poison Centre
België (Belgique) Centre Antipoisons-Antigifcentrum 070 245 245
Česká Republika (Czech Republic) Toxikologické informační středisko 0 22 49 192 93
Danmark (Denmark) Poison Information Center 0 82 12 12 12
Deutschland (Germany) Clinical Toxicology and Berlin Poison Information Centre 0 30 192 40
España (Spain) Servicio de Información Toxicológica 091 562 04 20
France Centre antipoison et de toxicovigilance de Paris 01 40 05 48 48
Ireland Poisons Information Centre of Ireland 01 809 2166
Italia (Italy) Centro Antiveleni Rome 06 499 70 698
Lietuvia (Lithuania) Environmental Protection Agency 370 70662008
Luxembourg Centre Antipoison 8002 5500
Magyarország (Hungary) Health Toxicological Information Service 080 20 11 99
Nederland Nationaal Vergiften Informatie Centrum 088 755 8000 (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen)
Norge (Norway) Department for Poisons Information 022 59 13 00
Österreich (Austria) Vergiftungsinformationszentrale 01 406 43 43
Polska (Poland) Centrum Toksykologii 022 619 66 54
Portugal Centro de Informação Antivenenos 800 250 250
România (Romania) Spitalul de Urgenta Floreasca 021 230 8000
Slovenská republika (Slovakia) National Toxicological Information Center 02 54 774 166
Schweiz (Swiss) Toxicological Information Centre 0 44 251 51 51
Sverige (Sweden) Giftinformationscentralen (Swedish Poisons Information Centre) 08 33 12 31
Suomi (Finland) Nødnummer Myrkytystietokeskus 09-471977
United Kingdom National Poison Centre – Poison Information Service 111

SECTION 2: Hazards identification

*** 2.1 Classification of the substance or mixture**

*** Classification according to Regulation (EC) No 1272/2008**

Met. Corr. 1	H290 May be corrosive to metals.
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 1)

*** 2.2 Label elements**
*** Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

*** Hazard pictograms**


GHS05 GHS07

*** Signal word** Danger

*** Hazard-determining components of labelling:**

Disodium metasilicate
SODIUM SILICATE

*** Hazard statements**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

*** Precautionary statements**

P260 Do not breathe dust.
P280 Wear protective gloves / eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P406 Store in a corrosion resistant container / container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

*** Additional information:**

EUH031 Contact with acids liberates toxic gas.
Contains biocidal products: troclosene sodium, dihydrate

*** 2.3 Other hazards**
*** Results of PBT and vPvB assessment**

* **PBT:** Not applicable.
* **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

*** 3.2 Mixtures**

* **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 2)

*** Dangerous components:**

CAS: 6834-92-0 EINECS: 229-912-9 Index number: 014-010-00-8	Disodium metasilicate ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; ⚠ STOT SE 3, H335 Specific concentration limit: Met. Corr.1; H290: C ≥ 10 %	15-30%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19	SODIUM CARBONATE ⚠ Eye Irrit. 2, H319	15%
CAS: 1344-09-8 EINECS: 215-687-4 Reg.nr.: 01-2119448725-31	SODIUM SILICATE ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	15%
CAS: 51580-86-0 EINECS: 220-767-7 Index number: 613-030-01-7 Reg.nr.: 01-2119489371-33-0001	troclosene sodium, dihydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335, EUH031	1-5%
CAS: 68439-51-0 Polymer Reg.nr.: Exempted [4]	PPG-4-LAURETH-2 Aquatic Chronic 3, H412	1-5%

*** Additional information:**

For the wording of the listed risk phrases refer to section 16. Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

SECTION 4: First aid measures

*** 4.1 Description of first aid measures**

*** General information:** Immediately remove any clothing soiled by the product.

*** After inhalation:** Supply fresh air; consult doctor in case of complaints.

*** After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

*** After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

*** After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

*** 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

*** 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

GB

(Contd. on page 4)



Safety data sheet
according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 3)

SECTION 5: Firefighting measures

- * **5.1 Extinguishing media**
- * **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- * **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- * **5.3 Advice for firefighters**
- * **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- * **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- * **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- * **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- * **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- * **7.1 Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
When diluting always pour product into water and not vice versa.
- * **Information about fire - and explosion protection:** Keep respiratory protective device available.
- * **7.2 Conditions for safe storage, including any incompatibilities**
- * **Storage:**
- * **Requirements to be met by storerooms and receptacles:** No special requirements.
- * **Information about storage in one common storage facility:** Do not store together with acids.
- * **Further information about storage conditions:**
Protect from frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- * **Storage class:** 8 A
- * **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 5)



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

* 8.1 Control parameters

* Ingredients with limit values that require monitoring at the workplace:

51580-86-0 troclosen sodium, dihydrate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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* **Additional information:** The lists valid during the making were used as basis.

* 8.2 Exposure controls

* **Appropriate engineering controls** No further data; see section 7.

* **Individual protection measures, such as personal protective equipment**

* **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

* **Respiratory protection:**



If dust is generated, use respiratory protection equipment. (EN143 or EN149)

* **Recommended filter device for short term use:** Filter P2

* **Hand protection**



Preventive skin protection by using gloves is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Choose glove material taking into account breakthrough times, permeation rates and degradation.

* **Material of gloves**



The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Suitability (penetration time, material thickness) for a specific workplace should be discussed with the manufacturer of the protective gloves.

* **Penetration time of glove material**

You can find out the exact breakthrough time from the glove manufacturer; keep it in mind.

* **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber: Breakthrough time >480 min - Recommended thickness: 0.4 mm
Nitrile rubber: Breakthrough time >480 min - Recommended thickness: 0.35 mm
PVC: Breakthrough time >480 min - Recommended thickness: 0.5 mm

* **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber: Breakthrough time >30 min - Recommended thickness: 0.13 mm

(Contd. on page 6)



Safety data sheet
according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 5)

* As protection from splashes gloves made of the following materials are suitable:

PVC (EN374)

Nitrile rubber 0.11 mm (EN374)

* Eye/face protection



Close-fitting safety goggles

SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

* General Information

* Physical state

Solid

* Colour:

White

* Odour:

Like chlorine

* Odour threshold:

Not determined.

* Melting point/freezing point:

Undetermined.

* Boiling point or initial boiling point and boiling range

100 °C (7732-18-5 water, distilled, conductivity or of similar purity)

* Flammability

Not determined.

* Lower and upper explosion limit

* Lower:

Not determined.

* Upper:

Not determined.

* Flash point (CCMP):

Not applicable.

* Decomposition temperature:

Not determined.

* pH at 20 °C

>13

* Viscosity:

* Kinematic viscosity

Not applicable.

* Dynamic:

Not applicable.

* Solubility

* water:

Soluble.

* Partition coefficient n-octanol/water (log value)

Not determined.

* Vapour pressure at 20 °C:

23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)

* Density and/or relative density

* Density at 20 °C:

1.1 g/cm³

* Relative density

Not determined.

* Vapour density

Not applicable.

* 9.2 Other information

The substances and percentages listed here are intended to indicate health, safety and environmental risks only and do not form part of the product specification.

* Appearance:

* Form:

Powder

(Contd. on page 7)



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 6)

*** Important information on protection of health and environment, and on safety.**

* Ignition temperature:	Product is not selfigniting.
* Explosive properties:	Product does not present an explosion hazard.
* Change in condition	
* Evaporation rate	Not applicable.

*** Information with regard to physical hazard classes**

* Explosives	Void
* Flammable gases	Void
* Aerosols	Void
* Oxidising gases	Void
* Gases under pressure	Void
* Flammable liquids	Void
* Flammable solids	Void
* Self-reactive substances and mixtures	Void
* Pyrophoric liquids	Void
* Pyrophoric solids	Void
* Self-heating substances and mixtures	Void
* Substances and mixtures, which emit flammable gases in contact with water	Void
* Oxidising liquids	Void
* Oxidising solids	Void
* Organic peroxides	Void
* Corrosive to metals	May be corrosive to metals.
* Desensitised explosives	Void

SECTION 10: Stability and reactivity

- * **10.1 Reactivity** No further relevant information available.
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- * **10.3 Possibility of hazardous reactions**
 Reacts with various metals.
 Corrosive action on metals.
 Contact with acids releases toxic gases.
 Reacts with strong acids.
 Reacts with oxidising agents.
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** Don't mix with acids.
- * **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- * **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- * **Acute toxicity** Based on available data, the classification criteria are not met.

(Contd. on page 8)



Safety data sheet
according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 7)

* LD/LC50 values relevant for classification:

6834-92-0 Disodium metasilicate

Oral LD50 1,280 mg/kg bw (Rat)

* Primary irritant effect:

* **Skin corrosion/irritation** Causes severe skin burns and eye damage.* **Serious eye damage/irritation** Causes serious eye damage.* **STOT-single exposure** May cause respiratory irritation.

* 11.2 Information on other hazards

* **Endocrine disrupting properties**

None of the ingredients is listed.

* **SECTION 12: Ecological information**

* 12.1 Toxicity

* **Aquatic toxicity:****6834-92-0 Disodium metasilicate**

LC50/96h >200 mg/l (Ide (Leuciscus Idus))

EC0/24h >500 mg/l (Daphnia Magna)

* **12.2 Persistence and degradability** No further relevant information available.* **12.3 Bioaccumulative potential** No further relevant information available.* **12.4 Mobility in soil** No further relevant information available.* **12.5 Results of PBT and vPvB assessment*** **PBT:** Not applicable.* **vPvB:** Not applicable.* **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

* **12.7 Other adverse effects*** **Remark:** Harmful to fish* **Additional ecological information:*** **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

-GB-

(Contd. on page 9)



Safety data sheet

according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 8)

SECTION 13: Disposal considerations

*** 13.1 Waste treatment methods**
*** Recommendation**


Must not be disposed together with household garbage. Do not allow product to reach sewage system.

*** Uncleaned packaging:**
*** Recommendation:** Disposal must be made according to official regulations.

*** Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

*** 14.1 UN number or ID number**
*** ADR/RID/ADN, IMDG, IATA** UN3262

*** 14.2 UN proper shipping name**
*** ADR/RID/ADN** 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)
*** IMDG, IATA** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE)

*** 14.3 Transport hazard class(es)**
*** ADR/RID/ADN, IMDG, IATA**

*** Class** 8 Corrosive substances.

*** Label** 8

*** ADN/R Class:** 8 Corrosive substances.

*** 14.4 Packing group**
*** ADR/RID/ADN, IMDG, IATA** III

*** 14.5 Environmental hazards:** Not applicable.

*** 14.6 Special precautions for user** Warning: Corrosive substances.

*** Hazard identification number (Kemler code):** 80

*** EMS Number:** F-A,S-B

*** Segregation groups** (SGG18) Alkalis

*** Stowage Category** A

*** Segregation Code** SG35 Stow "separated from" SGG1-acids

*** 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

(Contd. on page 10)



Safety data sheet
according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 9)

* Transport/Additional information:

* ADR/RID/ADN

* Limited quantities (LQ)

5 kg

* Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

* Transport category

3

* Tunnel restriction code

E

* IMDG

* Limited quantities (LQ)

5 kg

* Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

* UN "Model Regulation":

UN 3262 CORROSIVE SOLID, BASIC, INORGANIC,
N.O.S. (DISODIUM TRIOXOSILICATE), 8, III

SECTION 15: Regulatory information

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

* Poisons Act

* Regulated explosives precursors

None of the ingredients is listed.

* Regulated poisons

None of the ingredients is listed.

* Reportable explosives precursors

None of the ingredients is listed.

* Reportable poisons

None of the ingredients is listed.

* Directive 2012/18/EU

* Named dangerous substances - ANNEX I None of the ingredients is listed.

* Regulation (EC) No 648/2004 on detergents / Labelling for contents

phosphates

≥15 - <30%

disinfectants, polycarboxylates, non-ionic surfactants

<5%

* 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is exclusively meant for industrial/professional use.

* Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

(Contd. on page 11)

Safety data sheet
 according to UK REACH

Printing date 20.05.2025

Version number 2 (replaces version 1)

Revision: 20.05.2025

Trade name: Chemipro Caustic

(Contd. of page 10)

- 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.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

* **Department issuing SDS:** Product safety department.

* **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Met. Corr.1: Corrosive to metals – Category 1
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* **Sources**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No.1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet.

** **Data compared to the previous version altered.**