

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name BPS 7112

Article No. 7112

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

Product type cleaning agent.

1.3 Details of the supplier of the safety data sheet

Manufacturer Trion Tensid AB

Street address Svederusgatan 1-3
SE-754 50 Uppsala

Telephone +46 18 15 61 90

Fax +46 18 69 66 27

Email info@trion.se

1.4 Emergency telephone number

Available outside office hours Yes

Emergency phone number 999 / 112

Other

Contact person: William Stomilovic
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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Hazardous to the aquatic environment — Acute hazard category 1
Skin corrosion, hazard category 1B

Hazard statements H314, H400

2.2 Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

Pictogram



Signal word Danger**Hazard statements** H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.**Precaution statements** P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 or /doctor/physician
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P405 Store locked up.

2.3 Other hazards

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

<i>Chemical name</i>	<i>CAS No. EC No. REACH No.</i>	<i>Concentration</i>	<i>Classification</i>	<i>H-phrase</i>
Sodium hypochlorite (solution, active chlorine)	7681-52-9 231-668-3 01-2119488154-34-	<10%	Aquatic Acute 1, Skin Corr. 1B	H314, H400
Sodium hydroxide	- - -	<1%	Skin Corr. 1A	H314

Substance additional information

For the full text of the H phrases mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Fresh air and rest.**Skin contact** Rinse the skin immediately with soap and water. Remove wet clothing and continue to rinse.**Eye contact** Rinse carefully with lukewarm water for several minutes. Remove any contact lenses. Keep eyelids wide apart. Contact a doctor if the irritation persists.**Ingestion** If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. DO NOT INDUCE VOMITING! Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

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Inhalation	Inhalation of aerosol can cause irritation in the upper airways.
Skin contact	Can cause irritation/pain.
Eye contact	Causes serious eye irritation.
Ingestion	Ingestion of large amounts can result in nausea, vomiting and stomach pains.

4.3 Indication of any immediate medical attention and special treatment needed

Ensure that eyewash station are close to the workplace.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	carbon dioxide (CO2), powder or Diffuse jet of water.
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5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire, wear self contained breathing apparatus. Wear suitable protective clothing.
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Other

Containers in the vicinity of fire should be moved immediately or cooled with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective equipment as specified in section 8 of SDS. Avoid contact with: Skin, Eyes and acids.

6.2 Environmental precautions

Prevent large discharges to drains. Bank up and collect. Collect in a suitable container that is approved for this purpose. In the event of major discharges into water, contact the waterworks or sewage works.

6.3 Methods and material for containment and cleaning up

Absorb in inert material (vermiculite, dry sand or soil) and collect.

Spillages must be collected into sealed containers and submitted for destruction according to local regulations. Prevent further leakage or spillage if safe to do so. Shovel into suitable container for disposal. Rinse clean with plenty of water.

6.4 Reference to other sections

Personal protection see section 8 and for disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions

Avoid: Spill, Skin and eye contact and contact with acids.

General hygiene

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Can react with acids and oxidising substances. Store in the original container to avoid contamination. Keep tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

This product should only be used for those uses described in section 1.2

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters****National occupational exposure limits**

Ingredient	CAS no.	EC No.	Exposure limit mg/m ³ -ppm		Short-term exposure limit mg/m ³ -ppm		Remark	Source	Year
Sodiumhydroxide	1310-73-2	215-185-5	-	-	2	-	-	EH40/2005 Workplace exposure limits	-

8.2 Exposure controls**Technical precaution measures**

Ensure that eyewash station are close to the workplace.

Eye / face protection

Wear protective goggles when there is a risk of eye contact. Safety glasses with side-shields conforming to EN166.

Safety gloves

For prolonged or repeated contact use protective gloves.
When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374. Wear protective gloves made of butylrubber, nitrile rubber or natural rubber.

Other skin protection

Wear suitable protective clothing to prevent contact with the skin. Wash contaminated clothing before re-use.

Respiratory protection

Wear breathing protection with a type B (grey) gas filter in the event of insufficient ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties****Appearance, colour**

Greenish

Appearance, physical state

Not applicable

Auto-ignition temperature

Not applicable

Decomposition temperature

Not applicable

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Density	1070 kg/m ³
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Form	liquid
Initial boiling point and boiling range	Not applicable
Melting point / freezing point	Not applicable
Odour	Chlorine odour.
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH concentrate	~12,50
pH in solution	~11,50
pH value	Not applicable
Relative density	Not applicable
Solubility	Water-soluble
Solubility in water	100 %
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable

9.2 Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Can react with acids and oxidising substances.
Reacts with strong acids.

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Chlorine gas is formed on contact with acid.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Inhalation of aerosol can cause irritation in the upper airways. Ingestion of large amounts can result in nausea, vomiting and stomach pains.
Irritation	Skin contact Can cause irritation/pain. Severe eye irritation
Corrosive effects	Not applicable
Sensitisation	Not applicable
Mutagenicity	Not applicable
Carcinogenicity	Not applicable
Repeated dose toxicity	Not applicable
Reproductive toxicity	Not applicable
LD50 Oral	Sodium hypochlorite (solution, active chlorine) (rat) 8200 mg/kg.
LD50 Dermal	Sodium hypochlorite (solution, active chlorine) (rat) 2000 mg/kg.) Sodium hypochlorite (solution, active chlorine) (rabbit): > 10000 mg/kg.
Toxicity in case of inhalation	Inhalation of high concentrations may cause irritation of the upper respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic organisms.

Aquatic	Contains components that are harmful to aquatic organisms.
Acute fish toxicity	Sodiumhydroxide (LC50): (96 h) 45 mg/l. Sodium hypochlorite (solution, active chlorine) (LC50): (96 h) 0,02 mg/l.
Acute algae toxicity	Sodium hypochlorite (solution, active chlorine) (LC50): (72 h) 0,02 mg/l.

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Acute crustacean toxicity

Sodiumhydroxide (EC50): (48 h) 30 mg/l.
Sodium hypochlorite (solution, active chlorine) (EC50): (48 h) 0,069 mg/l.

12.2 Persistence and degradability

The product is easily biodegradable.

12.3 Bioaccumulative potential

Bio-accumulation is unlikely.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

Other

This assessment is based on the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations

Local provisions and EU provisions must be followed during waste handling. Prevent large discharges to drains. Residue and used product that cannot be reused must be handled as hazardous waste. The company is affiliated to REPA.

Packaging

Do not attempt to refill or clean the package. Emptied and cleaned packages can be recycled or incinerated.

Other

Waste management

The Waste Regulations 2011 No. 988
H4 Irritant: substances and preparations that are not corrosive, but that can cause inflammation in the event of direct, prolonged or repeated contact with the skin or mucous membranes.
H 12 The waste emits toxic or very toxic gases on contact with water, air or acid.

Waste code (EWC)

20 01 29* Detergents that contain hazardous substances.

Additional waste information

The waste code (EWC) is a recommendation. In the event of non-compliant handling, the end user is personally responsible for a suitable EWC code.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

1791

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14.2 UN proper shipping name

Name	HYPOCHLORITE SOLUTIONS
IMDG proper shipping name	HYPOCHLORITE SOLUTIONS

14.3 Transport hazard class(es)

Label	8
ADR / RID Class	8
ADR / RID Classification code	C9
ADR / RID hazard identification number	80
IMDG Class	8
IMDG EmS	F-A, S-B
IATA Class	8

14.4 Packing group

II

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Tunnel restriction code: 2 (E).

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
European Parliament and Council Regulation (EC) No. 1272/2008, CLP.
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.

National regulations

EH40/2005 Workplace exposure limits
Waste Ordinance (2011:927).
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).

15.2 Chemical safety assessment

Not applicable

SECTION 16. OTHER INFORMATION**Changes to previous revision**

Changes are made in the following sections: 14

References to key literature and data sources

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council. .
 Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.
 Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.
 EH40/2005 Workplace exposure limits
 Waste Ordinance (2011:927).
 MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).
www.prevent.se
 C&L Inventory database
 Information also obtained from the constituent substances' safety data sheets.

Phrase meaning

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
 Skin Corr. 1A - Skin corrosion, hazard category 1A
 Skin Corr. 1B - Skin corrosion, hazard category 1B
 H314 - Causes severe skin burns and eye damage.
 H400 - Very toxic to aquatic life.