

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

1.1 Product identifier

Trade name TCS 25

Article No. 1120

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

Product type Detergent.

1.3 Details of the supplier of the safety data sheet

SDS created by Intersolia Sweden AB

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 911 / 112

Other

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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 Skin irritation, hazard category 2
Serious eye damage, hazard category 1

Hazard statements H315, H318

2.2 Label elements

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

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Pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.

Precaution statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water./
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
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	H-phrase
2-(2-butoxyethoxy) ethanol	112-34-5 203-961-6 01-2119475104-44-	<5%	Eye Irrit. 2	H319
Sodium metasilicate pentahydrate	10213-79-3 229-912-9 -	1 - 5%	STOT SE 3, Skin Corr. 1A, Met. Corr. 1	H290, H314, H335
Hexyl D-glucoside	54549-24-5 259-217-6 01-2119492545-29-	<3%	Eye Dam. 1	H318
a-(2-propylheptyl)-w-hydroxy	160875-66-1 - -	<2%	Eye Dam. 1	H318
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24-	<0,5%	Skin Corr. 1B	H314
Sodium hydroxide	- - -	<0,5%	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 with lukewarm water. 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

Inhalation

Inhalation of aerosol can cause irritation in the upper airways.

Skin contact

Repeated or prolonged skin contact can result in skin irritation and/or dermatitis and sensitisation in susceptible individuals.

Eye contact

Severe 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

Eye washes must be available.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

carbon dioxide (CO₂), powder or Diffuse jet of water.

5.2 Special hazards arising from the substance or mixture

Non-flammable.

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.

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. Do not get in eyes.

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6.2 Environmental precautions

Prevent large discharges to drains. Collect in a suitable container that is approved for this purpose. Bank up and collect.

6.3 Methods and material for containment and cleaning up

Rinse clean with plenty of water. Consider the risk of slipping. Only large-scale discharges can constitute a risk.

6.4 Reference to other sections

For personal protective equipment, see under section 8, and for waste see under section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions

Do not get in eyes. Wash hands thoroughly after handling.
Avoid contact with acids and oxidising substances.

General hygiene

Ensure good industrial hygiene.
Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

The package must be stored sealed and in a cool location. Store in the original container to avoid contamination. Can react with acids and oxidising substances. The product can attack certain plastics, rubber, painted and varnished surfaces.

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		Short-term exposure limit		Remark	Source	Year
			mg/m3	ppm	mg/m3	ppm			
2-(2-butoxyethoxy)ethanol	112-34-5	203-961-5	67,5	10	101,2	15	-	EH40/2005 Workplace exposure limits	-
Sodiumhydroxide	1310-73-2	215-185-5	-	-	2	-	-	EH40/2005 Workplace exposure limits	-
Phosphoric acid	7664-38-2	231-633-2	1	-	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	Wear protective gloves in the event of repeated or prolonged skin contact. When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374.
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Other skin protection	Remove and wash contaminated clothing before re-use.
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Respiratory protection	Breathing protection is not normally required.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour	Yellowish
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
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	Slight odour.
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH concentrate	11,4
pH value	Not applicable
Relative density	Not applicable
Solubility	Immiscible with water.
Solubility in water	100 %
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable

Vapour pressure	Not applicable
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Viscosity	Not applicable
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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

Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The product has a low toxicity, which means that the risk of injury during normal handling is small.

Acute toxicity	Ingestion of large amounts can result in: nausea, vomiting and stomach pains.
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Serious eye damage / irritation	Severe eye irritation
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Irritation	Inhalation of aerosol can cause irritation in the upper airways. Repeated or prolonged skin contact can result in skin irritation and/or dermatitis and sensitisation in susceptible individuals.
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Sensitisation	Repeated or prolonged skin contact can result in skin irritation and/or dermatitis and sensitisation in susceptible individuals.
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Mutagenicity	Not applicable
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Carcinogenicity	Not applicable
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Reproductive toxicity	Not applicable
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LD50 Oral	2-(2-butoxyethoxy)ethanol (rat): 5660 mg/kg. Sodium metasilicate pentahydrate (rat): 847 mg/kg. Phosphoric acid (rat): 1530 mg/kg.
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LD50 Dermal	2-(2-butoxyethoxy)ethanol (rabbit): 2700 mg/kg. Phosphoric acid (rabbit): 2740 mg/kg.
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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic	The product has a low level of toxicity to aquatic organisms.
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Acute fish toxicity	Sodiumhydroxide (LC50): (96 h) 45 mg/l. 2-(2-butoxyethoxy)ethanol (LC 50): 1300 mg/l. Phosphoric acid (LC50): (96 h) 138 mg/l.
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Acute algae toxicity	2-(2-butoxyethoxy)ethanol (IC50): (72 h) 53 mg/l.
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Acute crustacean toxicity	Sodiumhydroxide (EC50): (48 h) 30 mg/l. 2-(2-butoxyethoxy)ethanol (EC50): (48 h) > 100 mg/l.
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12.2 Persistence and degradability

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. Residue and used product that cannot be reused must be handled as hazardous waste. The company is affiliated to REPA.
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Packaging	Do not attempt to refill or clean the package. Emptied and cleaned packages can be recycled or incinerated. Empty packages must be handled in an environmentally correct manner according to applicable laws and provisions.
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*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.

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*

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

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).

15.2 Chemical safety assessment

Not applicable

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

Changes are made in the following sections: 3, 8, 11, 12.

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).
 Information also obtained from the constituent substances' safety data sheets.

Phrase meaning

Eye Dam. 1 - Serious eye damage, hazard category 1
 Eye Irrit. 2 - Eye irritation, hazard category 2
 Met. Corr. 1 - Corrosive to metals, hazard category 1
 Skin Corr. 1A - Skin corrosion, hazard category 1A
 Skin Corr. 1B - Skin corrosion, hazard category 1B
 STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
 H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.