

SAFETY DATA SHEET

TCS 25

Last changed: 01/06/2011

Replaces date: 14/09/2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME TCS 25
APPLICATION AREA Cleaning agent

Vendor art. number
1120

NATIONAL MANUFACTURER/IMPORTER

Enterprise Trion Tensid AB
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CONTACT PERSONS

Name	E-mail	Telephone	Country
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Emergency Phone	Type of assistance	Opening Hours
+46 70 60 462 94	William Stomilovic	

2. HAZARDS IDENTIFICATION

HEALTH

R36/38 Irritating to eyes and skin.

FIRE AND EXPLOSION

This material is not combustible.

ENVIRONMENT

Readily biodegradable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
disodium metasilicate		229-912-9	6834-92-0	1 - 5 %	C,R34 - R37
Alkyl glycoside, Sugar based surfactant				< 3 %	Xi,R41
C10 Alcohol etoxylate				< 2 %	Xi,R41
1-metoxi-2-propanol		203-539-1	107-98-2	1 - 5 %	Xn,R10 - R67
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether		203-961-6	112-34-5	1 - 5 %	Xi,R36
N,N-diacetic acid			51981-21-6	5 - 10 %	Xi,R36/38

Explanation of symbols: T+ =highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

4. FIRST AID MEASURES

GENERAL

Consult a physician for specific advice.

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SKIN CONTACT

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Consult an eye specialist if the irritation persists.

INGESTION

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. DO NOT induce vomiting. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguishing agent: carbon dioxide, powder or a wide water jet.

EXTINGUISHING METHODS

No information available

FIRE AND EXPLOSION HAZARDS

Not ignitable.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Avoid breathing fire vapours.

OTHER INFORMATION

Containers close to fire should be removed or cooled with water.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear necessary protective equipment.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Prevent discharge of larger quantity to drain. Collect in a suitable container approved for the purpose. Bank in and collect.

METHODS FOR CLEANING UP

Flush clean with lots of water. Be aware of potential for surfaces to become slippery.

OTHER INFORMATION

Only major emissions may represent a risk.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

May attack some plastics, rubber and coatings. May react with acids and oxidising substances.

HANDLING ADVICE

Avoid contact with the skin and eyes, and also contact with clothes. Store in original container to avoid contamination.

STORAGE

Keep container tightly closed in a cool place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL

Use suitable protective gloves and protective clothes if there is risk of direct contact or splashing.

RESPIRATORY PROTECTION

No respirator is normally needed.

EYE PROTECTION

Use approved safety goggles or face shield.

HAND PROTECTION

Use protective gloves that are resistant to chemicals. Protective gloves (butyl rubber, natural rubber, nitrile rubber).

PROTECTIVE CLOTHING

Use suitable protective clothing, as necessary.

OTHER INFORMATION

Isolate contaminated clothing and wash before reuse.

OEL value

Ingredient name	CAS no.	Range	ppm	mg/m ³	Year	Notification
1-metoxi-2-propanol	107-98-2	15 min.	75	300	1990	H
1-metoxi-2-propanol	107-98-2	8 h	50	190	1990	H

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid.
COLOUR	Tan.
ODOUR	Weak odour.
SOLUBILITY	Miscible with water.
WATER SOLUBILITY	100%
FAT SOLUBILITY	Not applicable.

Physical and chemical parameters

Parameter	Value/unit	Method/reference	Observation
pH in solution	~ 13.00		
Density	1070.00 kg/m ³		

10. STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

May react with acids and oxidising substances.

MATERIALS TO AVOID

Reacts with strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXIC TEST RESULTS

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

Route of exposure	Exposure time	Value/unit	Species	Source
LD50(Dermal)		2700.00 mg/kg	Rabbit	
LD50(Oral)		5660.00 mg/kg	Rat	

1-metoxi-2-propanol

Route of exposure	Exposure time	Value/unit	Species	Source
LD50(Dermal)		13000.00 mg/kg	Rabbit	
LD50(Oral)		5660.00 mg/kg	Rat	

GENERAL

Preparation has low toxicity, therefore risk of damage is limited in normal handling. Used product must be handled with care, and skin contact avoided as far as possible.

INHALATION

Inhalation of aerosol may cause irritation in the upper respiratory tract.

SKIN CONTACT

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons.

EYE CONTACT

Severe eye irritation.

INGESTION

Consumption of larger quantities can result in nausea, vomiting and stomach pains.

12. ECOLOGICAL INFORMATION

AQUATIC ECOTOXICITY

Alkyl glycoside, Sugar based surfactant

Test	Exposure time	Value/unit	Species	Source
EC50(Acute Daphnia)	48h	490.00 mg/l	Daphnia magna	
IC50(Acute algae)	72h	180.00 mg/l	Scenedesmus subspicatus	
LC50(Acute fish)	96h	420.00 mg/l	Onchorhynchus mykiss	

C10 Alcohol etoxylate

Test	Exposure time	Value/unit	Species	Source
EC50(Acute Daphnia)	48h	10.0000 - 100.00 mg/l	Daphnia	
IC50(Acute algae)	72	10.0000 - 100.00 mg/l	Algae	
LC50(Acute fish)	96h	10.0000 - 100.00 mg/l	Fish	

N,N-diacetic acid

Test	Exposure time	Value/unit	Species	Source
LC50(Acute fish)	96h	> 100.00 mg/l	Oncorhynchus mykiss	
EC50(Acute Daphnia)	48h	> 100.00 mg/l	Daphnia Magna	
IC50(Acute algae)	72h	> 100.00 mg/l		

ECOTOXICITY

Low toxicity to aquatic organisms.

DEGRADABILITY

Readily biodegradable.

ACCUMULATION

Bioaccumulation improbable.

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OTHER INFORMATION

The assessment is based on the properties of the components.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Do not try to refill or clean the packaging. Emptied and cleaned packaging can be recycled or burnt. Unemptied packaging is classed as product.

CATEGORY OF WASTE

Suitable classification of waste is the responsibility of the user. Empty packages must be handled in an environmentally-correct manner as per the applicable laws and regulations.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: No

15. REGULATORY INFORMATION



Irritating

EC-Label: No

COMPOSITION

disodium metasilicate (1 - 5 %), Alkyl glycoside, Sugar based surfactant (< 3 %), C10 Alcohol etoxylate (< 2 %), 1-metoxi-2-propanol (1 - 5 %), 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (1 - 5 %), N,N-diacetic acid (5 - 10 %)

R-PHRASES

R36/38 Irritating to eyes and skin.

S-PHRASES

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash with plenty of water.

16. OTHER INFORMATION

VENDOR NOTES

Assessed on the basis of available data.

LIST OF RELEVANT R-PHRASES

R10 Flammable.
R34 Causes burns.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

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REVISION HISTORY

Version	Rev. date	Responsible	Changes
1.0.1	14/09/2009	WS	New database
1.0.1	01/06/2011	WS	Changes in section 3,12,16