Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifiers

TOTALON X

Revision date: 07.04.2011 / 07.04.2011

Use of the substance/ preparation: fire-extinguishing agent

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

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1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/ downstream user/distributor): TOTAL Feuerschutz GmbH
Industriestraße 13
68526 Ladenburg
Telephone: +49 6203 75-0
Telefax: +49 6203 75252
E-mail (competent person): total@tycoint.com www.total-feuerschutz.de
Dept. responsible for information: Abteilung Technik
hbach@tycoint.com
Information Telephone: +49 6203 75213

1.4. Emergency telephone number

Dept. responsible for information: Poison Control Center Mainz - 24 hour emergency service
Emergency telephone: +49 (0) 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC:
Irritating to eyes.

2.2. Label elements

Labelling (67/548/EEC or 1999/45/EC):

Danger symbol(s) and danger term(s) for dangerous materials and preparations:
Xi

R phrases:

R phrases	
R36	Irritating to eyes.

S-phrases:

S-phrases	
S24/25	Avoid contact with skin and eyes.

Hazard components for labelling:
-
Special provisions concerning the labelling of certain mixtures:
-

2.3. Other hazards

Possible harmful physico-chemical effects:
No information available.
Possible harmful effect(s) on human beings and possible symptom(s):
No information available.
Possible harmful effect(s) on the environment:
May cause long-term adverse effects in the environment.
Other hazards:
Within expanded foam respiration is not possible, danger of suffocation!

SECTION 3: Composition/ information on ingredients

chemical characterization (preparation):
The articel is a preparation/mixture and consits of non-hazardous substances and following hazardous substances

Hazardous ingredients:

CAS No.	EC No	chemical name:/ REACH registration No.	of (%)	up to (%)	unit/ Content	danger symbol(s)	R phrases	INDEX no.
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol		10	Gew.-%	Xi	36	603-096-00-8
68515-73-1	500-220-1	Alkylpolyglycosid		5	Gew.-%	Xi	41	
161278-39-3	500-631-6	Surfactant, containg fluoride		5	Gew.-%		52/53	

Full text of R-phrases: see section 16.

Labelling (CLP):

CAS No.	EC No	chemical name:/ REACH registration No.	Hazard pictograms	Signal word	Hazard Statements
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol	GHS07	Warning	319
68515-73-1	500-220-1	Alkylpolyglycosid	GHS05	Warning	314
161278-39-3	500-631-6	Surfactant, containg fluoride			412

Additional information:
contains: Fluoroadditive

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
After inhalation:
Provide fresh air.
In case of respiratory tract irritation, consult a physician.
In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap.
In case of eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water.
In case of eye irritation consult an ophthalmologist.

After ingestion:
Rinse mouth thoroughly with water.
Do not induce vomiting.
Call a physician in any case!

4.2. Most important symptoms and effects, both acute and delayed
No information available.

4.3. Indication of any immediate medical attention and special treatment needed
Information to physician:
No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
This preparation is an extinguishing media.

5.2. Special hazards arising from the substance or mixture
Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:
No information available.

5.3. Advice for firefighters
Additional information:
The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions:
Conditions to avoid :
Eye contact.

Skin contact .
Provide for sufficient ventilation and punctiform suction at critical points.

6.2. Environmental precautions
Environmental measures:
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Additional information:
See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advices on safe handling:
Keep container tightly closed.
Precautions against fire and explosion:
No information available.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storerooms and containers:
Keep only in the original container.
Suitable material for Container: :
Refined steel.
Polyethylene.
GFK
Further information on storage conditions:
Do not store at temperatures under: 50°C
Storage class: 12

7.3. Specific end use(s)
refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits rsp. biological occupational exposure limits requiring monitoring:

occupational exposure limit values:

CAS No.	chemical name	AGW (DE)	unit	ppm	Peak limitation	Remark
112-34-5	2-(2-butoxyethoxy)ethanol	100	mg/m3		1(I)	DFG, Y

8.2. Exposure controls
Respiratory protection: With correct and proper use, and under normal conditions, breathing protection is not required.
Hand protection: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
Suitable material: NBR (Nitrile rubber). Butyl caoutchouc (butyl rubber).
Thickness of the glove material: >0,2 mm
penetration time (maximum wearing period): 480 Min
Eye protection: Tightly sealed safety glasses.
Body protection: Body protection: not required.

SECTION 9: Physical and chemical properties

9.1. information on basic physical and chemical properties
Physical state: liquid
Colour: yellow - brown
Odour: characteristic

Important health, safety and environmental information:

			unit			Method
pH:	6,5	- 8,5		**at °C**	20	*DIN EN 1262:1996*
boiling temperature / boiling range:	100		**°C**			
Flash point (°C):	>100		**°C**			*DIN EN 22719*
explosion limits (LEL, UEL):						*not applicable*
Flammability:	*not applicable*					
Spontaneously flammable:	*not applicable*					
oxidizing characteristics:	*not applicable*					
density:	1,40	- 1,50	**g/cm³**	**at °C**	20	*DIN EN ISO 3675*
Water solubility (g/l):	100		**Gew.-%**			
Partition coefficient n-octanol /water (log P O/W):						*not determined*

9.2. Other information

Additional information:
Viscosity : 15 mm¦/s at °C: -12, DIN EN ISO 3675
Gießpunkt/Pourpoint: -12 °C, DIN ISO 3016

SECTION 10: Stability and reactivity

10.1. Reactivity
Normally stable.

10.2. Chemical stability
Normally stable.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
Oxidising agent, strong.

10.6. Hazardous decomposition products
No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity:
Acute toxicity, oral LD50: > 2000 mg/kg LIMIT-test.
Irritant and corrosive effects:
Irritant effect on the skin: Not an irritant.
Irritant effect on the eye: irritant.
Sensitisation:
not sensitising.
Repeated dose toxicity:
negative.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.
No indications of human carcinogenicity exist.

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity:
Acute fish toxicity LC50: ca. > 1500 mg/Liter (48 h, DIN 38412-15)
Algae toxicity ErC50: ca. > 1000 mg/Liter (72 h, EN 28692:1993
Acute Daphnia toxicity EC50: ca. > 100 < 1000 mg/Liter (24 h, DIN 38412-11)
Effects in sewage plants:
Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.
(concentration: < 8000 mg/l 1:125, 267000 mg/l 1:4)

12.2. Persistence and degradability

12.3. Bioaccumulative potential
No indication of bioaccumulation potential.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects
Chemical oyxgen demand (COD): 12 mg O2/mg **Remark:** 3%
Biochemical oxygen demand (BOD): 10 mg O2/mg **Remark:** 3%
AOX (mg/l): The product contains organically bound halogen as per formulation. It may increase the AOX value when discharged from treatment plants or into natural waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recommendation:
Consult the appropriate local waste disposal expert about waste disposal.
Vorschlagsliste für Abfallschlüssel/Abfallbezeichnungen gemäß AVV:
Waste code product: 16 03 05

Contaminated packaging:

Recommendation:
Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1. Land transport (ADR/RID)

Remark: No dangerous good in sense of this transport regulation.

14.2. Inland waterway craft (ADN/ADNR)

Remark: No dangerous good in sense of this transport regulation.

14.3. Sea transport (IMDG)

Remark: No dangerous good in sense of this transport regulation.

14.4. Air transport (ICAO-TI / IATA-DGR)

Remark: No dangerous good in sense of this transport regulation.

14.5. Additional information:
No special measures are required.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Informations on working limitations:
§ 5 MuSchRiV
§ 22 JArbSchG
§ 4 MuSchRiV
Störfallverordnung:
Unterliegt nicht der StörfallV.
Water Hazard Class: 1 **Source:** S Selbsteinstufung
Other regulations (EU):
Chemical Safety Assessment
Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

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

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
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Further remarks:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
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Further remarks:
Dieses Sicherheitsdatenblatt wurde auf Basis von Daten des in Abschnitt 1 genannten und für dieses Sicherheitsdatenblatt verantwortlichen Lieferanten erstellt durch:
This Safety Data Sheet was drawn up by TÜV SÜD Industrie Service GmbH (see below). Based on data from the suppliere, who is named in section 1 and who is responsible for this document.
TÜV SÜD Industrie Service GmbH
Department Environmental Service
Westendstraße 199
80686 Munic - Germany
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E-mail (competent person):
Mr. Heiko Bach
Dep. Technics
E-Mail: hbach@tycoint.com
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*** Data changed compared with the previous version:**
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Wording of the r-phrases under paragraph 3:

R phrases	
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.