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 A

Revision date: 18.01.2011 / 18.01.2011

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:
This preparation is not classified as dangerous according to 1999/45/EC.

2.2. Label elements

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

S-phrases:

S-phrases	
S15	Keep away from heat.
S21	When using do not smoke.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S3	Keep in a cool place.
S35	This material and its container must be disposed of in a safe way.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

Possible harmful physico-chemical effects:
No information available.

Possible harmful effect(s) on human beings and possible symptom(s):
Within expanded foam respiration is not possible, danger of suffocation!
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
Possible harmful effect(s) on the environment:
No information available.
Other hazards:
No information available.

SECTION 3: Composition/ information on ingredients

chemical characterization (preparation):
Mixture

Hazardous ingredients:

CAS No.	EC No	chemical name:/ REACH registration No.	of (%)	up to (%)	unit/ Content	danger symbol(s)	R phrases	INDEX no.
57-13-6	200-315-5	urea	0	2	Gew.-%	Xi	36/37/38	

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
57-13-6	200-315-5	urea			

Additional information:
contains: Fluoroadditive

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.
After inhalation:
Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. In case of breathing difficulties administer oxygen.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.
In case of eye contact:
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After ingestion:
Do not induce vomiting. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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:
Carbon dioxide (CO_2). Atomized water. Foam. Dry extinguishing powder. Extinguishing powder.
Extinguishing media which must not be used for safety reasons:
None

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:
Carbon monoxide. Carbon dioxide (CO_2).

5.3. Advice for firefighters
Special protective equipment for firefighters:
In case of fire: Wear self-contained breathing apparatus.
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:
See protective measures under point 7 and 8.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions
Environmental measures:
Prevent spread over a wide area (e.g. by containment or oil barriers).
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.
Collect in closed containers for disposal.
Wash with plenty of water.

6.4. Reference to other sections
Additional information:
Contaminated surfaces will be extremely slippery

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advices on safe handling:
When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a shower if necessary. Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.
Precautions against fire and explosion:
No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storerooms and containers:
Keep/Store only in original container.
Unsuitable material for Container: Aluminium. Zinc. steel.
Hints on joint storage:
None
Further information on storage conditions:
Keep container tightly closed in a cool, well-ventilated place.
storage temperature:
of °C: 0 °C
up to °C: 50 °C

Storage class: 12

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls
Technical measures:
It is recommended to design all work processes always so that the following is excluded:
Eye contact
Skin contact
Respiratory protection: With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at/for: aerosol or mist formation.
Hand protection: liquid-tight.
Suitable material: PVA (Polyvinyl alcohol). PVC (Polyvinyl chloride). NR (natural rubber, natural latex). NBR (Nitrile rubber).
Thickness of the glove material: >0,1mm
penetration time (maximum wearing period): 4 h
Eye protection: Tightly sealed safety glasses.
Body protection: Apron.
General protection and hygiene measures:
When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a shower if necessary. Avoid contact with skin, eyes and clothes. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

SECTION 9: Physical and chemical properties

9.1. information on basic physical and chemical properties
Physical state: liquid
Colour: whitish - transparent
Odour: pungent

Important health, safety and environmental information:

			unit			Method
pH:	7,0	- 8,0		**at °C**	20	
boiling temperature / boiling range:	100		**°C**			
melting point / melting range:	-5		**°C**			
Flash point (°C):	>100		**°C**			
Ignition temperature in °C:						*not applicable*
Flammability:	*not applicable*					
Spontaneously flammable:	*not applicable*					
oxidizing characteristics:	*not applicable*					
Explosivity:	*not applicable*					
density:	1.095		**g/cm³**	**at °C**	20	
Water solubility (g/l):	100		**Vol.-%**			
Partition coefficient n-octanol /water (log P O/W):						*not applicable*

9.2. Other information

Additional information:
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
No information available.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Normally stable.

10.5. Incompatible materials
Acid. Alkalis (alkalis). Oxidising agent, strong. Reacts violently with peroxides.

10.6. Hazardous decomposition products
Carbon dioxide. Carbon monoxide. nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

CAS No.	chemical name	LD50: oral	unit	species	LD50: dermal	unit	species	LC50: inhalativ	unit	species
00-00-0	Mixture	>2000	mg/kg							

Irritant and corrosive effects:
Irritant effect on the skin:
Evaluation: Not an irritant.

Irritant effect on the eye:
Evaluation: Not an irritant.
Sensitisation:
No data available
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
No indications of human reproductive toxicity exist.
Additional information:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity:
Acute fish toxicity
LC50/48h Leuciscus idus (golden orfe) 1,35 g/l
Acute Daphnia toxicity
EC50/24h Daphnia magna 2,1g/l
Algae toxicity
EC50/72h: 560mg/l

12.2. Persistence and degradability
Method:
Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
No information available.

12.6. Other adverse effects
Chemical oyxgen demand (COD): 24 mg/g
Biochemical oxygen demand (BOD): 9.3 mg/g
According to its formulation, the product contains the following substances of Directive 76/464/EEC:
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 name: aqueous liquid wastes destined for off-site treatment
Waste code product: 16 00 00

Contaminated packaging:

Recommendation:
Contaminated packages must be completely emptied and can be re-used following proper cleaning.

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)

14.3. Sea transport (IMDG)

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

14.5. Additional information:
No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Betriebssicherheitsverordnung (BetrSichV): -
Water Hazard Class: 1 **Source:** Anh. 4
Technische Anleitung Luft (TA-Luft):
Klasse:
-
Other regulations (EU):
According to EC directive 1999/45/EC or annex VI of directive 67/548/EEC the preparation does not have to be labelled.

15.2 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
Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008
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.
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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	
R36/37/38	Irritating to eyes, respiratory system and skin.