


Date of issue : 04.06.2013 Replaces Data Sheet of : 27.07.2010

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**  
**Trade Name :** Fluna TFT Reiniger  
**Article No. :** n.av.  
**Preparation No. :** n.av.  
**Registration No. :** n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Use: cleaning agent
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier :**  
 Fluna Tec & Research GmbH, Hauffgasse 3-5, A- 1110 Wien  
 Telephone : +43-17431886-0, Telefax : +43-17431886-18, E-Mail : office@flunatec.com
- 1.3.2 **Responsible for the data sheet :**  
 CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, E-Mail : info@cosichem.de
- 1.4 **Emergency telephone number**  
 Emergency - Telephone of Company / Supplier Information Centre Specialising in Symptoms of Poisoning  
 Telephone : +43-17431886-0 (8:30 – 16:30) Telephone : +44 870 600 6266

## SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**  
**Classification and labelling according to Directive 1272/2008/EC:**  
 ---  
**Classification and labelling according to Directive 67/548/EEC / 1999/45/EC:**  
 Extremely flammable
- 2.2 **Label elements**  
 Classification according to EEC - Regulations : Yes.  
 Applicable Exemptions : No.  
 Hazard Identification : Extremely flammable  
 Component(s) :  
**R - Phrases :**  
 R 12: Extremely flammable.  
**S - Phrases :**  
 S 9: Keep container in a well-ventilated place.  
 S 16: Keep away from sources of ignition - No smoking.  
 S 33: Take precautionary measures against static discharges.  
 S 51: Use only in well-ventilated areas.  
 S 56: Dispose of this material and its container at hazardous or special waste collection point.  
 Additional Markings :  
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Keep out of the reach of children. In use, may form flammable / explosive vapour - air mixture.
- Hazard Symbol(s) : 
- 2.3 **Other hazards**  
 None.

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**SECTION 3: Composition/information on ingredients****3.1 Substances****Dangerous Ingredients :****3.2 Mixtures****Chemical Characterisation :**

aerosol

**Dangerous Ingredients :**

<b>CAS - No.</b>	<b>Index - No.</b>	<b>EEC - No.</b>	<b>Material</b>	<b>m% - range</b>	<b>Symbol</b>	<b>R / H - phrases</b>
106-97-8	601-004-00-0	203-448-7	Butan	2,5 - 10%	F+ ; GHS02	R 12 ; H220 GHS04 Dgr
74-98-6	601-003-00-5	200-827-9	Propan	1 - 2,5%	F+ ; GHS02	R 12 ; H220 GHS04 Dgr
64-17-5	603-002-00-5	200-578-6	Ethanol	1 - 2,5%	F ; GHS02	Dgr R 11 ; H225
67-63-0	603-117-00-0	200-661-7	2-Propanol	1 - 2,5%	F, Xi ; GHS02	R 11-36-67 ; H225 GHS07 Dgr H319 H336

**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation :**

Move out of dangerous area. Move to fresh air. If symptoms persist, call a physician.

**4.1.2 Skin Contact :**

Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**4.1.3 Eye Contact :**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**4.1.4 Ingestion :**

n.ap.

**4.2 Most important symptoms and effects, both acute and delayed**

None.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media :**

Use dry chemical, CO2, water spray or "alcohol" foam.

**5.1.2 Extinguishing Media to Avoid :**

high volume water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire .? may be formed. Carbon oxides

**5.3 Advice for firefighters****5.3.1 Special Protective Equipment :**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

**5.3.2 Additional Information :**

None.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

See chapter 8.2.2

Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

**6.4 Reference to other sections**

None.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling :**

Avoid contact with the skin and the eyes. Take off all contaminated clothing immediately. When using, do not eat, drink or smoke.

**7.1.2 Precautions in Case of Fire and Explosion :**

Ensure adequate ventilation, especially in confined areas.

**7.2 Conditions for safe storage, including any incompatibilities****7.2.1 Storage Instructions :**

No special precautions required.

**7.2.2 Store away from :**

Do not store together with oxidizing agents

**7.2.3 Further Information on Storage Conditions :**

None.

**7.3 Specific end use(s)**

n.av.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Material**

Butan

Propan

Ethanol

2-Propanol

**Limit Value**AGW: 1000 ppm | 2400 mg/m<sup>3</sup> / II/465AGW: 1000 ppm | 1800 mg/m<sup>3</sup>AGW: 500 ppm | 960 mg/m<sup>3</sup>AGW: 200 ppm | 500 mg/m<sup>3</sup> / II/380**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Keep container tightly closed. Do not remove screw cap until immediately ready for use. Re-open used containers with caution.

**8.2.2 Individual protection measures****8.2.2a Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter.A

**Protection :****8.2.2b Hand Protection :**

impervious butyl rubber gloves. Break through time &gt; 8h

**8.2.2c Eye Protection :**

tightly fitting safety goggles

**8.2.2d Skin Protection :**

Not relevant

**8.2.2e Further Information :****8.2.3 Environmental exposure controls :**

n.av.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****9.1.1 Form : aerosol****Colour :** various**Odour :** characteristic**9.1.2 pH-value, undiluted :**

n.av., pH-value, 1% aqueous solution : n.av.

**9.1.3 Boiling point / Boiling - range (°C) :**

-44, Melting point / Melting range (°C) : n.av.

**9.1.4 Flash point (°C, c.c.) :**

&lt; 0,

**9.1.5 Flammability (EEC A10/A13) :**

n.ap.

**9.1.6 Ignition temperature (°C) :**

365

**9.1.7 Autoflammability (EEC A16) :**

n.ap.

**9.1.8 Oxidising properties :**

None.

**9.1.9 Explosion hazard :**

n.ap.

**9.1.10 Explosion limits (Vol.%) lower :**

n.av., upper : n.av.

**9.1.11 Vapour pressure :**

3000 hPa

**9.1.12 Density (g/ml) :**

0,93

**9.1.13 Solubility (in Water) :**

soluble

Soluble in :

**9.1.14 Partition coefficient, n-Octanol/Water :**

n.av.

**9.1.15 Viscosity :**

n.av.

**9.1.16 Solvent content (m %) :**

n.av.

**9.2 Other information****9.2.1 Thermal decomposition (°C) :**

n.av.

**9.2.2 Vapour density (Air = 1) :**

n.av.

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**SECTION 10: Stability and reactivity**

- 10.1 **Reactivity**  
None.
- 10.2 **Chemical stability**  
Stable under normal conditions.
- 10.3 **Possibility of hazardous reactions**  
No hazards to be specially mentioned.
- 10.4 **Conditions to avoid**  
No dangerous reaction known under conditions of normal use.
- 10.5 **Incompatible materials**  
No dangerous reaction known under conditions of normal use.
- 10.6 **Hazardous decomposition products**  
No dangerous reaction known under conditions of normal use.

**SECTION 11: Toxicological information**

- 11.1 **Information on toxicological effects**
- 11.1.1 **Acute Health Effects :**
- |                                     |                                |
|-------------------------------------|--------------------------------|
| Inhalation, LC50 rat, (mg/l/4h) :   | n.av.                          |
| Ingestion, LD50 rat, (mg/kg) :      | n.av.                          |
| Skin - contact, LD50 rat, (mg/kg) : | n.av.                          |
| Irritation (to skin / eye) :        | May cause eye/skin irritation. |
| Sensitisation :                     | n.av.                          |
- 11.1.2 **Subacute / Chronic Toxicity :**
- |                    |       |
|--------------------|-------|
| Carcinogenicity :  | n.av. |
| Mutagenicity :     | n.av. |
| Teratogenicity :   | n.av. |
| Narcotic Effects : | n.av. |
- 11.1.3 **Practical Experience**
- 11.1.3.1 Observations relevant for classification :  
None.
- 11.1.3.2 Further Observations :  
None.
- 11.1.4 **General Remarks :**  
Classification of the preparation has been done by calculation in accordance with EEC directives.

**SECTION 12: Ecological information**

- 12.1 **Toxicity**  
Readily biodegradable, according to appropriate OECD test.
- 12.2 **Persistence and degradability**  
n.av.
- 12.3 **Bioaccumulative potential**  
Ecological injuries are not known or expected under normal use.
- 12.4 **Mobility in soil**  
n.av.
- 12.5 **Results of PBT and vPvB assessment**  
n.av.
- 12.6 **Other adverse effects**
- |                                 |       |
|---------------------------------|-------|
| 12.6.1 COD-Value, mg/g :        | n.av. |
| 12.6.2 BOD5-Value, mg/g :       | n.av. |
| 12.6.3 AOX-Remarks :            | None. |
| 12.6.4 Significant Components : | None. |
| 12.6.5 Other adverse effects :  | None. |

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

13.1.1 Recommendation : D 10 / R 2

Waste - Code - No. : 07 06 99


In addition comply with the regional authorities.

**13.2 Contaminated Packaging**

13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues. Stable under normal conditions.

13.2.2 Safe Handling : As described under Residues. No hazards to be specially mentioned.

**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1	<b>UN number</b>		
	1950	1950	1950
14.2	<b>UN proper shipping name</b>		
	UN 1950 Aerosols	Aerosols	Aerosols , flammable
14.3	<b>Transport hazard class(es)</b>		
	2	2	2.1
		Compressed gas	Flammable gas
14.4	<b>Packing group</b>		
	n.ap.	n.ap.	n.ap.
14.5	<b>Environmental hazards</b>		
		No.	
14.6	<b>Special precautions for user</b>		
	Transport-category : 2 Classification Code : 5F Hazard - No.: n.ap. LQ: 1 L	F-D , S-U	Packing Instructions (Passenger) 203 Packing Instructions (Cargo) 203
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>		
		None.	

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available.

**15.2 Chemical safety assessment : None.**

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**SECTION 16: Other information****Text of R / H phrases mentioned in Section 3**

R 11: Highly flammable.

R 12: Extremely flammable.

R 36: Irritating to eyes.

R 67: Vapours may cause drowsiness and dizziness.

H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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