

Date of issue: 28.11.2014 Replaces Data Sheet of: ---
 "*)" 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 Gun Degreaser
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, info@cosichem.de
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking 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:
 n.ap.
Classification and labelling according to Directive 1999/45/EC:
 n.ap.
- 2.2 **Label elements**
 Classification according to 1272/2008/EC: No.
 Applicable Exemptions:
 Signal word(s):
 Component(s):
- Hazard pictogram(s):
- H - Phrases:**
- P - Phrases:**
 P102: Keep out of reach of children.
 P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
- Additional Markings:
 None.
- The above mentioned labelling is valid for distribution to private consumer.
- 2.3 **Other hazards**
 This mixture contains no substances which are assessed to be PBT or vPvB. Reactions with unvaluable metals under liberation of hydrogen.

SECTION 3: Composition/information on ingredients

- 3.1 **Substances**
Dangerous Ingredients:
- 3.2 **Mixtures**
Chemical Characterisation:
 Aqueous surfactant solution.
Dangerous Ingredients:
- | CAS - No. | Index - No. | EC - No. | Material | m% - range | Symbol | R / H - phrases |
|---------------------------------------|-------------|----------|----------|------------|--------|-----------------|
| Text of R-/H- phrases: see section 16 | | | | | | |

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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 soap and plenty of water. Take off all contaminated clothing immediately. If symptoms persist, call a physician.
- 4.1.3 **Eye Contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
- 4.1.4 **Ingestion:**
Call a physician immediately. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.
- 4.2 **Most important symptoms and effects, both acute and delayed**
n.av.
- 4.3 **Indication of any immediate medical attention and special treatment needed**
Aspiration may cause pulmonary oedema and pneumonitis.

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 the following can be released: 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:**
Cool containers / tanks with water spray.

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
See chapter 8.2.2
- 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.

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. Provide adequate ventilation. Wash hands before breaks and immediately after handling the product.
- 7.1.2 **Precautions in Case of Fire and Explosion:**
Use water spray to cool unopened containers.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**
Ensure adequate ventilation.
- 7.2.2 **Store away from:**
Do not store together with .? oxidizing agents
- 7.2.3 **Further Information on Storage Conditions:**
n.av.
- 7.3 **Specific end use(s)**
n.av.

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SECTION 8: Exposure controls/personal protection

8.1	Control parameters	
	Material	Limit Value
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	
	Keep containers tightly closed in a cool, well-ventilated place.	
8.2.2	Individual protection measures	
8.2.2a	Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. E-P2
8.2.2b	Hand Protection:	PVC or other plastic material gloves; t > 60 min. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
8.2.2c	Eye Protection:	tightly fitting safety goggles
8.2.2d	Skin Protection:	lightweight protective clothing
8.2.2e	Further Information:	Observe wearing time limits:
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: liquid	Colour: colourless	Odour: characteristic
			Odour threshold: n.av.
9.1.2	pH-value, undiluted:	n.av., pH-value, 1% aqueous solution: n.av.	
9.1.3	Boiling point / Boiling - range (°C):	100, Melting point / Melting range (°C): n.av.	
9.1.4	Flash point (°C):	n.av., closed cup	
9.1.5	Flammability (EEC A10/A13):	n.av.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	n.av.	
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: / Vapour density (Air = 1):	n.av. / n.av.	
9.1.12	Density (g/ml):	1,09	
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.	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	Other information	n.av.	

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 hazards to be specially mentioned.
10.5	Incompatible materials
	reducing agents
10.6	Hazardous decomposition products
	None.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Substances**

n.ap.

11.1.2 Mixtures

Acute Toxicity:

Inhalation: n.av.

Ingestion: n.av.

Skin Contact: n.av.

Irritation / corrosion (to skin / eye): Irritating to skin.

Sensitisation: n.av.

Carcinogenicity: n.av.

Mutagenicity: n.av.

Teratogenicity: n.av.

Narcotic Effects: n.av.

11.1.3 – Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

None.

Further Observations:

Danger of cumulative effects.

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information**12.1 Toxicity**

Very toxic to aquatic organisms. EC50, Daphnia, 48h: 0,18 mg/L; LC50, Oncorhynchus mykiss (rainbow trout), 96h: 0,032 mg/L

12.2 Persistence and degradability

n.av.

12.3 Bioaccumulative potential

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

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.

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

13.1.1 Recommendation: D 10 / R 2

Waste - Code - No.: 15 01 02

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues. Offer rinsed packaging material to local recycling facilities.

13.2.2 Safe Handling: As described under Residues. No dangerous reaction known under conditions of normal use.

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SECTION 14: Transport information

	ADR	IMDG	IATA
	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.
14.1	UN number		
14.2	UN proper shipping name		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user		
	Transport category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.
- 15.2 **Chemical safety assessment :**
None.

SECTION 16: Other information

Text of R / H phrases mentioned in Section 3

This datasheet has been compiled in accordance with EU regulation 453/201. 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.

Prepared by:

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