

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 22.02.2008

Revision: 22.02.2008

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Gleitspray FLC 1012
- **Application of the substance / the preparation** Lubricant
- **Manufacturer/Supplier:**  
 Chemie-Technik GmbH  
 ELKALUB Hochleistungs-Schmierstoffe  
 Robert-Bosch-Straße 19  
 D-72189 Vöhringen  
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## 2 Hazards identification

- **Hazard description:**



F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7	butane F+; R 12	10-25%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Xn,  Xi,  F,  N; R 11-38-51/53-65-67	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane F+; R 12	10-25%

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CAS: 68425-15-0 EINECS: 270-335-7	Polysulfides, di-tert-dodecyl R 53	2.5-10%
CAS: 68649-42-3 EINECS: 272-028-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ☒ Xi, ☒ N; R 38-41-51/53	≤ 2.5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane ☒ F+; R 12	≤ 2.5%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-48/20-62-51/53-65-67	≤ 2.5%
CAS: 80939-62-4 EINECS: 279-632-6	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ☒ Xi, ☒ N; R 36/38-51/53	≤ 2.5%
CAS: 80595-74-0 EINECS: 279-514-4	N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine ☒ Xi, ☒ N; R 38-43-51/53	< 0.15%
CAS: 80584-90-3 EINECS: 279-503-4	N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine ☒ Xi, ☒ N; R 38-43-51/53	< 0.15%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

· **General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Generally the product does not irritate the skin.

Wash with water and soap

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

## 5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Risk of bursting in case of fire heat

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information** Cool endangered receptacles with water spray.

## 6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

· **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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### 64742-49-0 Naphtha (petroleum), hydrotreated light

TWA (8H)	Long-term value: 1000 mg/m <sup>3</sup> , 250 ppm
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### 110-54-3 n-hexane

WEL	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
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- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
- **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374
- **Penetration time of glove material** > 480 min / 0,4 mm thickness
- **Eye protection:** Safety glasses in case of spittings

## 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Aerosol
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Characteristic

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· <b>Change in condition</b> <b>Melting point/Melting range:</b> Undetermined. <b>Boiling point/Boiling range:</b> -44°C	
· <b>Flash point:</b>	Not applicable, as aerosol.
· <b>Ignition temperature:</b>	250°C
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.8 Vol %
<b>Upper:</b>	10.9 Vol %
<b>Pressure (20°C)</b>	2 - 4 bar
· <b>Density at 20°C:</b>	0.75 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	14.3 %
<b>VOC (EC)</b>	43.75 %
· <b>Additional information</b>	Vapors are heavier than air.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** In case of fire the formation of toxic gases is possible.
- **Additional information:** Stable for a storage time of min. 24 months

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 20 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** low irritant - no duty to declare
- **on the eye:**  
No irritating effect.  
low
- **Sensitization:** Sensitizing effect by skin contact is possible by prolonged exposure.

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## 12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

<b>64742-49-0 Naphtha (petroleum), hydrotreated light</b>
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LC 50 / 96 h   2.5 mg / l (Flathead Minnow /Elritze)
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- **Remark:** Harmful to fish

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

## 13 Disposal considerations

- **Product:**

- **Recommendation**

empty cans: material recycling

filled cans: remove in accordance with local regulations

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
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16 05 00	gases in pressure containers and discarded chemicals
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16 05 04	gases in pressure containers (including halons) containing dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.

- **Danger code (Kemler):** 23

- **UN-Number:** 1950

- **Packaging group:** -

- **Hazard label:** 2.1

- **Description of goods:** 1950 AEROSOLS

- **Remarks:** Transportation as "LIMITED QUANTITIES" (LQ2) according 3.4 ADR possible.  
Sole marking: UN 1950 (rhombe)

Entry in the transportation document: Transportation according chapter 3.4 ADR

- **Maritime transport IMDG:**



- **IMDG Class:** 2.1

- **UN Number:** 1950

- **Label** 2.1

- **Packaging group:** -

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- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

## 15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**

F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

23 Do not breathe vapour/spray.

24/25 Avoid contact with skin and eyes.

35 This material and its container must be disposed of in a safe way.

51 Use only in well-ventilated areas.

- **Special labelling of certain preparations:**

Contains N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine. May produce an allergic reaction.

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.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

- **National regulations:**

- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

Class	Share in %
I	≤ 2,5
NK	10-25

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

11 Highly flammable.

12 Extremely flammable.

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36/38 Irritating to eyes and skin.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

53 May cause long-term adverse effects in the aquatic environment.

62 Possible risk of impaired fertility.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

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