

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 26.05.2009

Revision: 26.05.2009

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

- **Product details:**
- **Trade name: 131 Neutra Fuel Stabilizer**
- **Application of the substance / the preparation** Lubricant
- **Supplier/Manufacturer:**
FGS GmbH
Fahrzeug- und AI- Systeme
Weidenäcker 2
D-78355 Hohenfels
Tel.: +49-7557-9288-0
Fax: +49-7557-9288-18
www.fgs-systems.de
- **Email competent person:** sonja.fischer@kft.de
- **Information department:** See supplier/manufacturer
- **Emergency information:** Giftinformationszentrale Göttingen Tel.: +49-551-19240

2 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment:**

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

R 10 Flammable.

R 22 Harmful if swallowed.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 65 Harmful: may cause lung damage if swallowed.

- **Classification system:**

The classification was made according to the latest editions of the EC-lists, and expanded using company data and specialized literature.

3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 71-36-3	butan-1-ol	10-25%
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EINECS: 200-751-6	Xn, Xi; R 10-22-37/38-41-67	
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Index number: 603-004-00-6		
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CAS: 1319-77-3	cresol (mix)	< 2.5%
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EINECS: 215-293-2	T, C; R 24/25-34	
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Index number: 604-004-00-9		
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation is suggested for at least 48 hours after the accident.

Remove affected persons from danger area and lay them down.

- **After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness, place patients on their side in a stable position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

- **After eye contact:**

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

Protect unharmed eye.

- **After swallowing:**

Drink 3-4 glass of milk or water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously:

Hold the head of the casualty low with the body in a prone position in order to avoid penetration of vomit into the air tube (danger of aspiration).

- **Information for doctor:**

- **The following symptoms may occur:**

Irritation of eyes and mucous membrane.

After swallowing:

Irritation of mucuous membranes

After the uptake of large quantities:

Symptoms of an alcoholic intoxication

Unconsciousness

Death

After inhalation:

Daze

Headache

Co-ordination difficulties

Disorder of the peripheral and central nervous system

- **Danger:** Risk of aspiration

- **Treatment:**

Symptomatic treatment

(decontamination, vital functions)

5 Fire fighting measures

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:** Direct jet water

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Dangerous decomposition product see chapter 10: stability and reactivity

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

- **Additional information:**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

Do not smoke - keep ignition sources away

Avoid contact with eyes and skin.

Ensure adequate ventilation

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

- **Measures for cleaning/collecting:**

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

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

- **Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Keep receptacles tightly sealed.

Avoid inhalation of vapours.

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store container tightly sealed at a cool and dry place with sufficient ventilation.

Store away from open flames, sources of heat or sparks.

Observe national regulations for storage of flammable liquids.

- **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Store away from foodstuffs.

Store away from feed.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

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· **Storage class** 3A Flammable Liquids

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

Install appropriate mechanical ventilation.
 Keep away from open flames and other ignition sources.
 Protect against electrostatic charges.
 No further data; see item 7.

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

71-36-3 butan-1-ol

WEL (Great Britain)	Short-term value: 154 mg/m ³ , 50 ppm
	Sk
OEL (Ireland)	Short-term value: 75 mg/m ³ , 25 ppm
	Sk

1319-77-3 cresol (mix)

IOELV (European Union)	Long-term value: 22 mg/m ³ , 5 ppm
OEL (Ireland)	Long-term value: 22 mg/m ³ , 5 ppm
	Sk

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Use skin protection cream for skin protection.
 Provide eye bath.

- **Breathing equipment:**

In case of unintentional release of substance, exceeding the occupational exposure limit value:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Chemical resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

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9 Physical and chemical properties:

· General Information

Form: Fluid
Colour: Dark yellow
 Light brown
Odour: Alcohol-like

· Change in condition:

Melting point/Melting range: not determined
Boiling point/Boiling range: 148.8°C

· **Flash point:** 40°C (C.O.C)

· **Self ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20°C:** 0.8927 g/cm³

· Solubility in / Miscibility with

Water: Dispersible

· Viscosity:

kinematic at 20°C: 5-15 mm²/s

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

· **Materials to be avoided:** Strong oxidants

· **Dangerous reactions:** No dangerous reactions known

· Dangerous products of decomposition:

In the case of fire or at high temperatures the formation of the following decomposition products is possible.

Carbon monoxide
 Carbon dioxide

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

71-36-3 butan-1-ol

Oral LD₅₀ 790 mg/kg (rat)

Dermal LD₅₀ 3400 mg/kg (rabbit)

Inhalative LC₅₀/4 h > 18 mg/l (rat)

64742-53-6 Distillates (petroleum), hydrotreated light naphthenic

Oral LD 5000 mg/kg (rat)

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

Oral LD 5000 mg/kg (rat)

· Primary irritant effect:

· on the skin:

Irritant to skin and mucous membranes.

Continuing or repeated contact with the skin may cause dermatitis.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effects known.

· Subacute to chronic toxicity:

Conjunctivitis

Significant exposure may affect people with chronic disease of the respiratory system, skin or eyes.

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· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

71-36-3 butan-1-ol

EC₅₀/48h 1983 mg/l (daphnia magna)

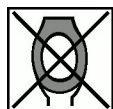
IC₅₀/72h > 500 mg/l (des)

LC₅₀/96h 1200 mg/l (leuciscus idus)

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation:**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities.

· **Uncleaned packagings:**

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

14 Transport information

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



· **ADR/RID class:** 3 (F1) Flammable liquids.

· **Danger code (Kemler):** 30

· **UN-Number:** 1993

· **Packaging group:** III

· **Label:** 3

· **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (BUTANOLS), special provision 640E

· **Limited quantities (LQ)** LQ7

· **Transport category** 3

· **Tunnel restriction code** D/E

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· **Remarks:** Limited quantity: 5l per inner packaging, 30 kg gross per packaging unit

· **Maritime transport IMDG:**



· **IMDG Class:** 3
 · **UN Number:** 1993
 · **Label:** 3
 · **Packaging group:** III
 · **EMS Number:** F-E,S-E
 · **Marine pollutant:** No
 · **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (BUTANOLS)

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



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1993
 · **Label:** 3
 · **Packaging group:** III
 · **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (BUTANOLS)
 · **Remarks:** Packing Instructions:
 For Limited Quantities: Y309 (Max Net Qty/Pkg: 10 l)
 Passenger and Cargo Aircraft: 309 (Max Net Qty/Pkg: 60 l)
 Cargo Aircraft only: 310 (Max Net Qty/Pkg: 220 l)

15 Regulatory information:

· **Markings according to EC guidelines:**

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

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



Xn Harmful

· **Risk phrases:**

10 Flammable.
 22 Harmful if swallowed.
 38 Irritating to skin.
 41 Risk of serious damage to eyes.
 65 Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

23 Do not breathe vapour.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

According to directive 1999/45/EC annex IV the containers are to fitted with child-resistant fastenings and a tactile warning of danger if offered or sold to the general public.

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If sold to private consumers further safety phrases are required:

Keep out of the reach of children.

S 62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· **National regulations**

· **Information about limitation of use:**

Restrictions on juvenile employment must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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:**

10 Flammable.

22 Harmful if swallowed.

24/25 Toxic in contact with skin and if swallowed.

34 Causes burns.

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

KFT Chemieservice GmbH

Marienstr. 3 D-64347 Griesheim

Postfach 1451 D-64345 Griesheim

Tel.: +49-6155-823241

Fax: +49-6155-823246

· **Contact:** Dr. Sonja Fischer

· **Sources:** MSDS of the supplier
