

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 28.05.2009

Revision: 28.05.2009

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

- **Product details:**
- **Trade name: 308 Moly Dri Plate Bulk**
- **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:** National Poisons Information Centre Tel.: +44 (0)870 6006266

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.
Has a narcotizing effect.
R 36 Irritating to eyes.
R 40 Limited evidence of a carcinogenic effect.
R 67 Vapours may cause drowsiness and dizziness.
Can become highly flammable in use.
- **Classification system:**
The classification was made according to the latest editions of the EC-lists, and expanded using company data and specialized literature.
- **Additional information:**
Upon strong heating flammable vapour/air mixtures are formed which are heavier than air and spread on the ground.

3 Composition/information on ingredients

- **Chemical characterization**
 - **Description:** Mixture of the substances listed below with nonhazardous additions.
 - **Dangerous components:**
- | | | |
|----------------------------|------------------------|--------|
| CAS: 67-63-0 | propan-2-ol | 25-50% |
| EINECS: 200-661-7 | Xi, F; R 11-36-67 | |
| Index number: 603-117-00-0 | | |
| CAS: 75-09-2 | dichloromethane | 25-50% |
| EINECS: 200-838-9 | Carc. Cat. 3; Xn; R 40 | |
| Index number: 602-004-00-3 | | |
- **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.
First aid personnel should pay attention to their own safety.

- **After inhalation:**

Supply fresh air.

Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.

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

- **After skin contact:**

Wash with water and soap.

If skin irritation continues, consult a doctor.

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

- **After swallowing:**

Drink 3-4 glass of milk or water.

Administer medicinal carbon

Give castor oil

Do not induce vomiting.

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).

Call for a doctor immediately.

- **Information for doctor:**

- **The following symptoms may occur:**

After contact with vapours:

irritant effect on the respiratory tract

Headache

Daze

Vomiting

- **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**

Carbon dioxide (CO₂)

Fire-extinguishing powder

Water haze

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:**

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.

6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

Do not smoke - keep ignition sources away

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Avoid contact with eyes and skin.

- **Measures for environmental protection:**

Prevent seepage into sewage system, workpits and cellars.

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.

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:**

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Do not spray!

Keep away from heat and direct sunlight.

Carry out filling operations only at sites with extractors available.

Avoid contact with eyes and skin.

Avoid inhalation of vapours.

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



Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

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.

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

Store away from foodstuffs.

Store away from feed.

Store away from oxidizing agents.

Store away from reducing agents.

- **Further information about storage conditions:**

Protect from heat and direct sunlight.

Store and transport packagings always uprightly.

Do not puncture spray cans.

- **Storage class** 10 Combustible liquids

8 Exposure controls and personal protection

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

Install appropriate mechanical ventilation.

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No further data; see item 7.

Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-olWEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm

OEL (Ireland) Short-term value: 400 ppm

Long-term value: 200 ppm

Sk

75-09-2 dichloromethaneWEL (Great Britain) Short-term value: 1060 mg/m³, 300 ppmLong-term value: 350 mg/m³, 100 ppm

Sk

OEL (Ireland) Short-term value: 550 mg/m³, 150 ppmLong-term value: 174 mg/m³, 50 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.

Avoid contact with the eyes.

Provide eye bath.

If larger quantities are handled provide emergency showers.

- **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.

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

- **Material of gloves:**

Neoprene

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.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Black
Odour:	Chlorine-like

- **Change in condition:**

Melting point/Melting range: not determined**Boiling point/Boiling range:** not determined

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- **Flash point:** 30°C (PMCC)
- **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:** 0.72 g/cm³
- **Solubility in / Miscibility with Water:** almost insoluble

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
Reducing agents
- **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 and carbon dioxide
Chlorine compounds
- **Additional information:** Forms explosive mixtures with air on intense heating.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - 75-09-2 dichloromethane**
 - Oral LD₅₀ 2136 mg/kg (rat)
 - Inhalative LC₅₀/4 h 88 mg/l (rat)
 - 67-63-0 propan-2-ol**
 - Oral LD₅₀ 4570 mg/kg (rat)
 - Dermal LD₅₀ 13400 mg/kg (rabbit)
 - Inhalative LC₅₀/4 h 30 mg/l (rat)
- **Primary irritant effect:**
- **on the skin:** Continuing or repeated contact with the skin may cause dermatitis.
- **on the eye:** Strong irritating effects with the danger of severe eye injury will be likely if the eyes are not rinsed immediately.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
- **Carcinogenic effects:** Suspicion of carcinogenic effect by one component.
- **Subacute to chronic toxicity:**
Prolonged and/or frequent exposition may damage liver and kidneys.
cardiac abnormality
Lung disorder resp. lung damage
damage in central nervous system
elevated carboxyhemoglobin levels
- **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:
Irritant
Harmful

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12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**

67-63-0 propan-2-ol

EC₅₀/48h > 9714 mg/l (daphnia magna)EC₅₀/72h > 1450 mg/l (algae)LC₅₀/96h 10400 mg/l (Pimephales promelas)

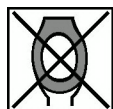
- **Additional ecological information:**

- **AOX-indication:**

This product contains organic bound halogen according formulation. It can be contributed to the AOX-account in clarification plants or in lakes and rivers

- **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 (FT1) Flammable liquids.
- **Danger code (Kemler):** 36
- **UN-Number:** 1992
- **Packaging group:** III
- **Label:** 3+6.1
- **Description of goods:** 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), DICHLOROMETHANE)
- **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:** 1992
 · **Label:** 3+6.1
 · **Packaging group:** III
 · **EMS Number:** F-E,S-D
 · **Marine pollutant:** No
 · **Proper shipping name:** FLAMMABLE LIQUID, TOXIC, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), DICHLOROMETHANE)

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



· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1992
 · **Label:** 3+6.1
 · **Packaging group:** III
 · **Proper shipping name:** FLAMMABLE LIQUID, TOXIC, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), DICHLOROMETHANE)
 · **Remarks:** Packing Instructions:
 For Limited Quantities: Y309 (Max Net Qty/Pkg: 2 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

· **Hazard-determining components of labelling:**

dichloromethane

· **Risk phrases:**

36 Irritating to eyes.
 40 Limited evidence of a carcinogenic effect.
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

7 Keep container tightly closed.
 23 Do not breathe vapour.
 25 Avoid contact with eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37 Wear suitable protective clothing and gloves.

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60 This material and its container must be disposed of as hazardous waste.

· Special labelling of certain preparations:

Can become highly flammable in use.

· 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:

11 Highly flammable.

36 Irritating to eyes.

40 Limited evidence of a carcinogenic effect.

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
