

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: 286 Extra High Temperature Grease 1120**
- **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.
R 68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and 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: 1330-78-5	tris(methylphenyl) phosphate	< 2.5%
EINECS: 215-548-8	T, N; R 39/23/24/25-51/53	
Index number: 015-015-00-8		
- **Additional information**
For further components with national limit values which require monitoring at the workplace please see chapter 8.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:**
Remove affected persons from danger area and lay them down.
Immediately remove any clothing soiled by the product.
First aid personnel should pay attention to their own safety.
Medical supervision for at least 48 hours.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.

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

- **After skin contact:**

Clean effected skin thoroughly with water and a mild cleansing agent. No residues shall remain on the skin.

After extensive or prolonged contact:

Seek medical treatment.

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

- **After swallowing:**

Drink plenty of water, but never give anything to an unconscious person.

Do not induce vomiting.

Immediately consult a physician and show the packing, the label or this safety data sheet.

- **Information for doctor:**

- **The following symptoms may occur:**

Gastric or intestinal disorders.

After contact with vapours:

Daze

irritant effect on the respiratory tract

- **Treatment:**

Symptomatic treatment

(decontamination, vital functions)

5 Fire fighting measures

- **Suitable extinguishing agents:**

Foam

Carbon dioxide (CO₂)

Extinguishing powder

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:**

Direct jet water

Water spray.

- **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.

Wear fully protective suit.

- **Additional information:**

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

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

6 Accidental release measures

- **Person-related safety precautions:**

Remove persons from danger area.



Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Do not smoke - keep ignition sources away

Avoid contact with eyes and skin.

wear protective gloves

- **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.

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In case of seepage into the ground inform responsible authorities.

- **Measures for cleaning/collecting:**

Absorb with non-combustible material like sand, soil or diatomite.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid contact with eyes and skin.

Avoid inhalation of vapours.

Restrict the quantity stored at the work place.

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



Keep ignition sources away - Do not smoke.

- **Storage**

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

Store only in unopened original 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.

Do not store together with acids.

Do not store together with alkalies (caustic solutions).

do not store with strong oxidizers

- **Further information about storage conditions:** Protect from heat and direct sunlight.

- **Storage class** 10 Combustible liquids

8 Exposure controls and personal protection

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

Install appropriate mechanical ventilation.

No further data; see item 7.

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**

Not necessary, if you follow the instructions for use.

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If vapors are formed use suitable respiratory protective device



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.

Short term filter device:

Filter A

- **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:**

Polyvinylchlorid

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:	Mild

- **Change in condition:**

Melting point/Melting range: not determined**Boiling point/Boiling range:** 204.4°C

- **Flash point:** 232°C (C.O.C)

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

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20°C:** 1.01 g/cm³

- **Solubility in / Miscibility with**

Water:	Insoluble
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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

No decomposition if used and stored according to specifications.

- **Materials to be avoided:**

Strong bases

Strong acids

Strong oxidants

material residues with hydroxyl compounds.

- **Dangerous reactions:** Reactions with above-mentioned substances

- **Dangerous products of decomposition:**

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

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Carbon monoxide and carbon dioxide

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11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

1330-78-5 tris(methylphenyl) phosphate
Oral LD₅₀ 3000 mg/kg (rat)
25322-68-3 Polyethylenglykol
Oral LD₅₀ > 15000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:**

Risk of absorption

Repeated contact has a drying effect on the skin.

- **on the eye:** Slightly irritating

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

- **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

Inhalation of high vapour concentrations may cause irritation of eyes, nose and respiratory tract.

Vapours may cause drowsiness and obnubilation.

12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

1330-78-5 tris(methylphenyl) phosphate
LC₅₀/96h 260 µg/l (rainbow trout)

- **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.
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14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** -
No hazardous good according to the regulation.
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
No hazardous good according to the regulation.

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:**
tris(methylphenyl) phosphate
- **Risk phrases:**
68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
- **Safety phrases:**
23 Do not breathe vapour.
36 Wear suitable protective clothing.
60 This material and its container must be disposed of as hazardous waste.
- **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:**
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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:** Angelika Torges
- **Sources:** MSDS of the supplier