

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: PENTOSIN CHF 11S

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Hydraulic fluid

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS (UK) PLC.

New Century Street

Hanley

Stoke-on-Trent, Staffordshire, ST1 5HU

UK

Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department Telephone: +44 (0) 1782 203700

E-mail: product.safety@fuchs-oil.com

1.4 Emergency telephone number: UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Inhalation - dust

Category 4

H332: Harmful if inhaled.

and mist)

Aspiration Hazard Category 1

H304: May be fatal if swallowed and enters

airways.

Hazard summary

Physical Hazards: No data available.

Health Hazards

Ingestion: If ingested, material may be aspirated into the lungs and cause chemical

pneumonitis. Treat appropriately.

2.2 Label Elements

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Contains: Hydrocarbons, low viscosity

Base oil, low viscous



Signal Words: Danger

Hazard Statement(s): H304: May be fatal if swallowed and enters airways.

H332: Harmful if inhaled.

Precautionary Statement

Response: P331: Do NOT induce vomiting.

P312: Call a POISON CENTER/doctor if you feel unwell. P301+P310: IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Supplemental label information

EUH208: Contains alkyl amine, alkylmethacrylate. May produce an allergic

reaction.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

> hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the

> > 2/11

environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives. Mixture

containing severely refined base oils and additives.

| Chemical name | Identifier | Concentration * | REACH Registration No. | Notes |
|-----------------------------|-------------------|------------------|------------------------|-------|
| Hydrocarbons, low viscosity | EC: 500-228-5 | 50,00 - <100,00% | 01-2119493069-28 | |
| Base oil, low viscous | EINECS: 276-737-9 | 20,00 - <30,00% | 01-2119474878-16 | |
| alkyl amine | EINECS: 263-177-5 | 0,10 - <1,00% | | |
| alkylmethacrylate | EINECS: 201-297-1 | 0,10 - <1,00% | 01-2119452498-28 | |

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SDS_GB - EN - 000000000601102271

Issue Date: 18.11.2015 Revision Date: 20.05.2016

Version: 1.2 Print date:: 23.05.2016

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Classification

| Chemical name | Identifier | Classification | |
|-----------------------------|-------------------|----------------|--|
| Hydrocarbons, low viscosity | EC: 500-228-5 | CLP: | Asp. Tox. 1;H304, Acute Tox. 4;H332 |
| Base oil, low viscous | EINECS: 276-737-9 | CLP: | Asp. Tox. 1;H304 |
| alkyl amine | EINECS: 263-177-5 | CLP: | Skin Corr. 1B;H314, Acute Tox. 4;H302, Skin Sens. 1;H317, Aquatic Chronic 3;H412 |
| alkylmethacrylate | EINECS: 201-297-1 | CLP: | Flam. Liq. 2;H225, Skin Irrit. 2;H315, Skin Sens. 1B;H317, STOT SE 3;H335 |

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Call a physician or poison control center immediately. Rinse mouth, Never

give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and

delayed:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

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SDS_GB - EN - 000000000601102271

Revision Date: 20.05.2016 Version: 1.2



Special fire fighting procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains

enter drains.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to

regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Minimize dust generation and accumulation. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any

incompatibilities:

Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to

temperatures close to the flash point.

7.3 Specific end use(s): not applicable

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

| Chemical name | type | Exposure Limit Values | | Source |
|-------------------|------|-----------------------|-----------|---|
| alkylmethacrylate | TWA | 50 ppm | 208 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) (12 2011) |

Issue Date: 18.11.2015 Revision Date: 20.05.2016 Print date:: 23.05.2016

SDS_GB - EN - 000000000601102271



| alkylmethacrylate | STEL | 100 ppm | 416 mg/m3 | UK. EH40 Workplace Exposure Limits (WELs) |
|-------------------|------|---------|-----------|---|
| | | | | (12 2011) |

8.2 Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below

recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective

equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should

be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Respirator type: If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or

manufacturar for enacific information

manufacturer for specific information.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Issue Date: 18.11.2015 Revision Date: 20.05.2016 Print date:: 23.05.2016

SDS_GB - EN - 000000000601102271

Version: 1.2



9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: Green

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

not applicable

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: 156 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: Not applicable for mixtures Flammability Limit - Lower (%)-: Not applicable for mixtures Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures

Density: 0,82 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification **Decomposition Temperature:** Value not relevant for classification

18,7 mm2/s (40 °C) Kinematic viscosity:

Explosive properties: Value not relevant for classification Oxidizing properties: Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Issue Date: 18.11.2015 Revision Date: 20.05.2016

SDS_GB - EN - 000000000601102271

Version: 1.2 Print date:: 23.05.2016



Inhalation: Harmful if inhaled.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscosity

LD 50 (Rat): > 5.000 mg/kg

Base oil, low viscous LD 50 (Rat): > 2.001 mg/kg

alkyl amine LD 50 (Rat): 1.350 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscosity

LD 50 (Rabbit): > 3.000 mg/kg

Base oil, low viscous LD 50 (Rabbit): > 2.001 mg/kg

Inhalation

Product: ATEmix: 3,51 mg/l

Dusts, mists and fumes

Specified substance(s)

Hydrocarbons, low

viscosity

LC 50 (Rat, 4 h): 1,17 mg/l Dusts, mists and fumes

Base oil, low viscous LC 50 (Rat, 4 h): > 5,53 mg/l

Dusts, mists and fumes

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

Product:

Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin

sensitization.

Issue Date: 18.11.2015 Revision Date: 20.05.2016 Print date:: 23.05.2016

SDS_GB - EN - 000000000601102271

Version: 1.2



Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: May be fatal if swallowed and enters airways.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low

viscosity

LC 50 (Fish, 96 h): > 1.000 mg/l

alkyl amine LC 50 (Fish, 96 h): < 1,1 mg/l

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low

viscosity

EC 50 (Water Flea, 48 h): > 1.000 mg/l

alkyl amine EC 50 (Water Flea, 48 h): < 1,1 mg/l

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

Toxicity to Aquatic Plants Specified substance(s)

Hydrocarbons, low

viscosity

EC 50 (Alga, 72 h): > 1.000 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

12.3 Bioaccumulative Potential

Issue Date: 18.11.2015 Revision Date: 20.05.2016 Print date:: 23.05.2016

SDS_GB - EN - 000000000601102271

Version: 1.2



Not applicable for mixtures **Product:**

12.4 Mobility in Soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other Adverse Effects: No data available.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

European Waste Codes

13 01 11*: synthetic hydraulic oils

SECTION 14: Transport information

ADR/RID

14.1 UN Number: 14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): Hazard No. (ADR): Tunnel restriction code: 14.4 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

ADN

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es) Class: Non-dangerous goods

Label(s): 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:

Issue Date: 18.11.2015 Revision Date: 20.05.2016

Print date:: 23.05.2016

SDS_GB - EN - 000000000601102271



IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): EmS No.:

14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:

IATA

14.1 UN Number:

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s): 14.4 Packing Group:

14.5 Environmental hazards: 14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

Highly flammable liquid and vapor. H225

H302 Harmful if swallowed.

May be fatal if swallowed and enters airways. H304 H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Other information: The classification is in line with current EC lists. It is expanded, however, by

information from technical literature and by information furnished by supplier

Issue Date: 18.11.2015 Revision Date: 20.05.2016

SDS_GB - EN - 000000000601102271

Version: 1.2 Print date:: 23.05.2016



companies. The classification results from the Conventional Method

mentioned in regulation EU 1272/2008 (CLP).

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The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

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SDS_GB - EN - 000000000601102271