

MATERIAL SAFETY DATA SHEET

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Section 1 Identification of the Substance/Mixture and of Company/ Undertaking

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Product Name PIRTEK SRC Fluid
Identified Use: Fire resistant hydraulic Fluid for industrial hydraulic systems.

Revision summary: This Safety Data Sheet has been classified in compliance
With EC 1272/2008.

Section 2 Hazards Identification

Classification of the mixture:

Classification according to Directive (67/548/EEC and 1999/45/EC):

Xn:R20/22

Label elements:



HARMFUL

Risk Phrases: Harmful by inhalation and if swallowed

Safety Phrases: Keep out of reach of children
Do not breathe mists
This material and its container must be disposed of as hazardous waste

Other Hazards:

None known.

Section 3 Composition/Information on Ingredients

Component	CAS No.	Concentration % W/W	DSD Classification
PPG/PEG Monobutyl ether	9038-95-3	<1%	T+ R26

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Component	CAS No.	Concentration % W/W	DSD Classification
Ethylene glycol	107-21-1	25-50%	Xn R22
2,2 Oxybisethanol	111-46-6	5-25%	Xn R22

See Section 16 for full text of risk phrases declared above.

Section 4 First Aid Measures

- Inhalation:** under normal conditions should not be an inhalation problem. However, if aerosols or mist are formed the affected person Must be removed from the source of contamination.
- Skin:** Wash skin as soon as possible with soap and water. Change contaminated clothing immediately and launder before re-use. Get medical advice if irritation persists.
- Eyes:** Wash out immediately with large amounts of water for at least 15 Mins. Obtain medical attention if irritation or redness persists, or as an additional precaution.
- Ingestion:** Wash out mouth with water. DO NOT INDUCE VOMITING unless directed by medical personnel. There may be soreness and redness of the throat and mouth, nausea and stomach pain may occur. Always seek medical attention if symptoms do occur.
- First Aiders:** No action should be taken involving any personal risk or without suitable training.

Most important symptoms and effects:
See Section 11 for more detailed information on health effects and symptoms.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media:
In case of fire use Alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing media:
Do not use water jets.

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Special hazards arising from the substance or mixture:

Packaged product in a fire or if heated may cause the container to burst because of the increase in pressure. Hazardous combustion products: Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulphur may also be formed.

Advice for Firefighters

No action should be taken involving any personal risk or without suitable training. The area should be isolated by removing all persons in the vicinity of the fire. Fire fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6 Accidental Release Measures

Personal Precautions:

Spilt product presents a significant slip hazard. Avoid exposure of the product to sources of ignition. See Section 8 for PPE, if dealing with any spillage Do Not Smoke, avoid inhaling vapours, avoid contact with skin & eyes. Isolate immediate hazard area and keep unauthorised persons out. It may be necessary to wear respiratory equipment depending upon a risk assessment of the particular situation.

Environmental Precautions:

Prevent entry into drains, sewers and water courses. The appropriate authorities should be notified if it has contaminated soil/vegetation. Spillages occurring on water should be removed from the surface using suitable absorbents. If necessary dispose of absorbed residues as described in section 13.

Containment and Clean up:

Soak up with inert absorbent and transfer to appropriate waste container. In case of spillage on water contain by a boom and collect by skimming or absorption. In case of soil contamination, remove contaminated soil for remediation or disposal in accordance with local regulations. Dispose of any residue and contaminated material via a licensed waste contractor.

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Section 7 Handling and Storage

Precautions for safe handling:

Advice on Occupational hygiene: Avoid contact with eyes - wear suitable eye protection when handling the product.
The use of appropriate barrier and after-work creams may be beneficial.

Storage: Store in containers designed to contain this product and ensure the storage area is not close to heat or any sources of ignition. Drums should be stored on their sides preferably under cover, out of direct sunlight, in well ventilated conditions. Containers should be tightly closed and properly labeled. All containers should be disposed of in an environmentally safe manner in accordance with the appropriate disposal of hazardous waste regulations.

Section 8 Exposure controls/Personal Protection

Control Parameters:

Name	Std.	TWA – 8 hrs.	STEL – 15 mins	Notes
Ethylene glycol	WEL	60mg/m ³	125 mg/m ³	
2,2Oxybisethanol	WEL	101 mg/m ³	-----	

Derived No effect Level: No DELs available

Predicted no effect Concentration: No PNEC available

Exposure Controls.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours or aerosols below their respective occupational exposure limits.
All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after engineering controls and other forms of control measures have been suitably evaluated.

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Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

The final choice of PPE will depend upon a risk assessment.

Hygiene Measures:

Wash hands, forearms and face thoroughly after using chemical products, before eating, smoking and using the lavatory and at the end of the working period.

General:

General ventilation, safe working procedures and training should form the basis for exposure controls. Local forced extraction may be needed if mists, fumes or vapours are generated.

Eyes:

Eye protection is strongly advised when handling the Chemical eye shield, spectacles to EC 166

Face:

A face shield with undiluted product or if there is a risk of splashing with the diluted product.

Respiratory protection:

Unlikely to be required in normal use but ensure good ventilation. However, where concentration in air may be excessive a full assessment of the working conditions will be necessary. Suitable respiratory equipment may need to be provided giving protection against those operations that generate vapour, fumes aerosols or mists where exposure cannot be adequately controlled by local exhaust ventilation.

Skin Protection:

Hand & skin protection is recommended at all times where exposure is likely.

Protective clothing must be worn, including PVC or nitrile gloves to BS EN 374 with a breakthrough time of >360 minutes.

Gloves should not have knitted wrists and/or open backs, Latex and butyl rubber are not recommended. Consider mechanical/tear resistance if handling items which could damage the glove.

Other:

EN345 safety boots (or EN347 working shoes). Work overalls to protect against skin contact.

Environmental:

Suitable system design or appropriate controls should be in place to ensure that the product cannot discharge to drain, unless it is suitably treated to conform with local regulatory discharge standards.

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Section 9 Physical and Chemical Properties

Appearance:	Red liquid
Odour:	Mild
Pour Point (°C):	-47°C
Flash Point (Closed, °C):	No Data
Autoflammability (°C):	Not Known
Explosive Properties (%):	Not Known
Relative Density (at 20°C):	1.108
Water Solubility:	Completely soluble in water
Kinematic Viscosity at 40°C (mm ² s ⁻¹):	46

PLEASE NOTE THAT THESE PROPERTIES DO NOT CONSTITUTE A SPECIFICATION

Section 10 Stability and Reactivity

Reactivity:	No dangerous reactions known
Conditions to Avoid:	Ignition sources, extremes of temperature
Incompatible materials:	Oxidising materials. Acids
Chemical Stability:	The substance is chemically stable under normal conditions of use
Decomposition Products:	Thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed. However, under normal condition of use hazardous decomposition products will not be produced.
Possibility of Hazardous Reactions:	None known.

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Section 11 Toxicological Information

Information on Toxicological Effects:

Hazardous Ingredients:

Monobutyl ether

Oral rat LD50 >5000 mg/Kg

Skin rabbit LD50 >20000 mg/Kg

Ethylene Glycol

Oral Mouse LD50 5500 mg/Kg

Oral rat LD50 4700 mg/Kg

Exposure Routes:

Dermal, Inhalation. Vapour inhalation under normal ambient conditions is not normally a problem because of low vapour pressure.

On Eyes:

Eye contact with the product is expected to cause only slight transient irritation or redness.

On Skin:

May cause slight irritation which may become more intense if not promptly removed or if the skin is abraded or cut.

Sensitisation:

No evidence of skin or respiratory sensitisation.

By Inhalation:

Low volatility makes inhalation unlikely at ambient temperatures.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

Fertility effects:

No known significant effects or critical hazards.

Potential Chronic Health Effects

None known

Section 12 Ecological Information

Toxicity:

Monobutyl ether

Toxicity -Fish

LC50 96hrs 18000-1000 mg/l

Environmental hazards:

The product is not expected to be toxic to aquatic life.

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Persistence: Readily biodegradable

Bioaccumulative potential: The product will disperse as a solution or emulsion in water, and components are not expected to bioaccumulate.

Mobility: High. The product will disperse as a solution in water. If released on land, small quantities will be absorbed in the upper soil layers where biodegradation may take place.

Results of PBT & vPvB assessment

PBT: No PBT chemicals present

VPvB: No VPvB chemicals present

Other adverse effects:

The product is of low volatility which are not expected to be released to air in any significant quantities.

PBT – (Persistent, Bioaccumulative and Toxic)

VPvB – (Very persistent and very bioaccumulative)

Section 13 Disposal Considerations

Methods of disposal:

Place used and contaminated materials/packaging in suitable containers. Dispose of the waste in accordance with Duty of Care regulations (Environmental Protection Act 1990-Section 34(7)) using a licensed waste disposal company. The product is subject to The Hazardous Waste Regulations 2005

Waste packaging should be recycled if feasible before incineration or landfill are considered. Do not dispose of untreated fluids down the drains. Dispose via an authorised person/licensed waste disposal contractor

It should not be discharged to drain without the approval of the appropriate local authority and without and without checking for compliance with issued consent conditions and other requirements.

Section 14 Transport Information

Classification for transport: Not regulated as hazardous for transport.

UN Number:	Not regulated	Packaging Group:	N/A
Shipping Name:	Not regulated	Marine Pollutant:	NO
IMO Class:	Not regulated	ICAO/IATA:	N/A
ADR/RID:	Not regulated		

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Section 15 Regulatory Information

Health, Safety & Environmental Regulations pertaining to the product:

EC 1272/2008 – Classification, Labelling and Packaging of Substances & Mixtures

EN 166:2002 – Eye Protection

EN 529:2005 – Respiratory Protective Devices

BS EN 374-1:2003 Protective gloves against chemicals and micro-organisms

Directive 91/689/EEC on Hazardous Waste (European Waste codes)

Directive 2000/76/EC on the incineration of waste

Directive 1999/31/EC on Landfill of waste

Additional Guidance

EH40 (revised annually): Occupational exposure limits. UK

HS(G)53: Respiratory protective equipment: a practical guide for users. UK

HS(G)65: Successful Health and Safety Management. (<http://www.etbpp.co.uk>).

HS(G)97: A step by step guide to COSHH assessment.

No Formal chemical safety assessment has been carried out.

16 Other information

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for any applications other than that as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to inform your employees and others who may be affected by any of the hazards described in this sheet and of any precautions which should be taken.

Full text R phrases: R22 Harmful if swallowed
 R26 Very Toxic by inhalation

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