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MSDS 36: Issue 5

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SAFETY DATA SHEET

According to E.C. Regulation 453-2010

Section 1: Identification of the substance / mixture and of the company / undertaking.

1.1 Product Identifier

Trade Name: XTREM BRAKE FLUID

Ingredients giving rise to classification; Polyalkylene glycol ether esters & amine mixture

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

Identified Uses: Hydraulic fluid for use in automotive brake and clutch systems.

1.3 Details of the supplier of the MSDS:

IPONE SA - Chemin La Meunière - 13480 Cabriès -
+33(0)4.42.94.05.65 - E-mail: info@ipone.fr

1.4 Emergency Telephone Number

For contact details of Poisons Centres in your country, see the World Health Organisation webpage http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/ from which a directory of Poisons Centres in various member states can be downloaded.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008 (CLP/GHS):. Eye Irritant-category 2; H319 Causes serious eye irritation.

2.2 Label Elements

Labelling according to 1272/2008 (CLP/GHS)

Hazard Pictogram/s;



Signal word: "Warning"

Hazard phrases; H319 Causes serious eye irritation;

Precautionary phrases recommended; P102 -keep out of the reach of children. P305/P351/P338 –IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337/313 –If eye irritation persists, get medical advice. P301/311 –If swallowed, call a poison centre or doctor/physician and have container or label at hand.

2.3 Other Hazards

Product is not classified as flammable or combustible but will burn.
Product is not classified as PBT or vPvB according to Annex XIII.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

General description. Blend of poly glycol ether esters with added corrosion and oxidation inhibitors.

Hazardous Ingredients

Ingredient	CAS No.	Registration No.	% w/w	Classification 1272 / 2008
Amine mixture	N/A	Pre-registered	0-2	Acute toxic oral –Class 4; H302 Skin Corrosion –Cat 1; H314 Aquatic acute class 1; H400

See Section 16 for explanation of the classification codes.

Section 4: First aid measures

4.1 Description of first aid measures

General Advice - First Aid responders should pay attention to self-protection and use any recommended protective clothing –see section 8.

Inhalation -remove victim to fresh air –and keep at rest. If recovery is not rapid, seek medical attention.

Skin contact-remove contaminated clothing. Wash affected skin with soap and water. If irritation persists seek medical attention.

Eye contact - Flush eye with plenty of water for at least 10 minutes. If irritation persists seek medical attention.

Ingestion - Obtain medical advice immediately. If patient is fully conscious, wash out mouth with water and give plenty of water to drink. If medical attention is delayed and an adult has swallowed several ounces, give 90 - 120ml of hard liquor such as 40%v/v spirits. For children give proportionately less at a rate of 2ml / kg body-weight. Never give anything by mouth to an unconscious person. Induce vomiting only under medical supervision.

4.2 Most important symptoms and effects both acute and delayed.

The most important symptoms and effects are described in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed.

Medical personnel seeking to administer first aid are referred to the services of the Poisons Information Service, who can advise in such instances. There is no specific antidote and treatment of over exposure should be directed at control of symptoms and the patient's clinical condition

Section 5: Fire fighting measures

5.1 Extinguishing Media

Suitable extinguishing media -Alcohol resistant foam, dry powder, carbon dioxide or water (fog or fine spray).

Unsuitable Extinguishing Media - Water jets (although these may be used to cool adjacent containers).

5.2 Special hazards arising from the substance or mixture.

No special risk – combustion products may contain harmful or irritant fumes. Containers may rupture from gas generation if exposed to fire.

5.3 Advice for fire fighters

Eye protection should be worn. Keep containers cool with water spray. In extreme conditions self-contained breathing apparatus and protective suit should be worn.

Section 6: Accidental release measures

6.1 Personal Precautions, protective equipment and emergency procedures.

Prevent unnecessary personnel entering area of spillage. Avoid contact with eyes, skin, and clothing. When cleaning up large spills, appropriate protective clothing should be worn including eye protection and impervious gloves -see section 8 for details.

6.2 Environmental Precautions

Prevent from entering drains, ditches or rivers. If this happens inform relevant authorities. Prevent gross contamination of soil.

6.3 Methods and materials for containment and cleaning up.

Contain spillage using sand earth or absorbent booms. Small spillages can be absorbed using rags or absorbent granules. Remove all material to a suitable container for subsequent disposal. Label Salvage Container appropriately. Flush contaminated area with plenty of water.

6.4 References to other sections

For personal protection see section 8. For disposal methods see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid any method of handling that generates mists or aerosols. Do not eat, drink or smoke when handling this product. Wash hands thoroughly after use.

7.2 Conditions for safe storage including any incompatibilities

Suitable bulk storage vessels are mild/stainless steel tanks fitted with a dry air breathing system or tight head steel drums. Do not store in lined tanks or drums. Brake fluid absorbs water from the atmosphere - always keep containers tightly closed. Avoid contamination with any other substances and in particular with mineral oils which are incompatible.

7.3 Specific end use

Users are referred to the Specification SAE J1707 "Service Maintenance of Brake Fluids"

Section 8: Exposure controls / personal protection

8.1 Control Parameters

8.1.1 Occupational exposure limits

Mixture – No official figures available. Due to the low vapour pressure of the preparation, vapour is not generally a problem at ambient temperature.

Individual ingredients.

	Country	8 hours	15 min
Aliphatic Amines	Latvia	1 mg/m ³	

8.1.2 Derived No Effect Levels (DNEL)

Not applicable

8.1.3 Predicted No Effect Concentrations (PNEC)

Not applicable

8.1.4 Recommended monitoring techniques

Personal air monitoring. An applicable standard is BS EN 14042.

8.2 Exposure Controls

8.2.1 General

Employ good industrial hygiene practice as part of a control banding approach.

8.2.2 Appropriate engineering controls

Not necessary under normal conditions. If fluid is being heated or atomised, local exhaust ventilation with filter / scrubber is recommended.

8.2.3 Individual protection measures / personal protective equipment.

Respiratory Protection –Not needed under normal conditions. Self contained breathing apparatus or Organic vapour respirators (A-P2) may be used where product is being heated or atomised and engineering control measures are not practical.

Hand Protection -Wear chemically resistant impervious gloves (EN 374) to avoid prolonged or repeated contact. Butyl rubber, Natural rubber, Nitrile rubber and PVC are suitable materials. Because of great variety of types of gloves see manufacturer's figures for breakthrough times. In the case of prolonged contact a glove with a protection class of 6 (breakthrough time of >480 min) is recommended.

Eye Protection -Wear close-fitting goggles (EN 166) or face shield where there is a risk of splashing (acrylic or PVC preferred to polycarbonate which may be attacked by brake fluid). Eye baths should be provided at locations where accidental exposure may occur.

Skin Protection -Where significant exposure is possible wear impervious body covering. It is recommended that showers are provided at locations where accidental exposure may occur.

8.2.4 Environmental Exposure Controls

No special measures required.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

		Test method
Appearance	Clear liquid - colourless to amber (although some brake fluids may be dyed).	Visual.
Odour	Bland	N/A
Odour threshold	N/A –very low odour	
pH	7.0 to 8.0	SAE J 1703
Melting point	< -50 °C.	SAE J 1703
Boiling point	> 300 °C.	SAE J 1703
Flash point	> 100 °C.	IP 35
Flammability limits in air.	Not established (non-volatile)	
Auto ignition temp.	> 300°C.	ASTM D 286
Decomposition Temperature	>300°C	
Evaporation Rate	Negligible	
Density @ 20°C	1.060 – 1.090 g/ml	DIN 51757
Solubility	In water: miscible in any ratio In ethanol: miscible in any ratio	
Partition Coefficient (n-Octanol/Water)	< 2.0 (all main ingredients)	OECD 117
Viscosity @ 20°C	Approx. 5-10 cSt	ASTM D 445
Vapour pressure 20°C	< 2 milibars	Reid
Vapour Density	Not established as non-volatile	
Explosive properties	Not explosive.	
Oxidising Properties	Not oxidising	

9.2 Other information

No other relevant data

Section 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as indicated.

10.2 Chemical Stability

Product is stable under normal conditions.

10.3 Possibility of hazardous reactions.

Glycol Ethers can form peroxides on storage

Glycol ethers can react with light metals with the evolution of hydrogen.

10.4 Conditions to Avoid

Do not distil to dryness without testing for peroxide formation.

10.5 Incompatible Materials

Strong oxidising agents. For user safety, brake fluid should never be contaminated with any other substance.

10.6 Hazardous Decomposition Products

None known.

Section 11: Toxicological information (comments may be based on analogy with similar products).

11.1 Information on toxicological effects

11.1.1 Acute Toxicity

Ingestion -Product is of low acute oral toxicity – LD50 (oral) Rat = > 5000 mg/kg. (Sparse experience indicates lethal dose in man could be less). However, if any significant amount is ingested, there is a risk of renal damage which in extreme cases could lead to kidney failure, coma or death. Other symptoms of overexposure include Central Nervous System effects, abdominal discomfort, metabolic acidosis, headache and nausea.

Inhalation -Unlikely to be hazardous by inhalation at ambient temperatures due to low vapour pressure. If product is inhaled at elevated temperatures or as an aerosol it may irritate respiratory tract and may cause systemic effects similar to ingestion (see above).

Aspiration –No aspiration hazard expected.

Dermal - Acute percutaneous toxicity is low LD50 (sk) Rabbit = > 3000 mg/kg. Massive contact with damaged skin could result in the absorption of harmful amounts.

11.1.2 Irritation

Eye Contact Causes serious eye irritation. (Test Method OECD 405).

Skin Contact Based on available data the classification criteria are not met (Test Method OECD 404). Repeated contact may de-fat the skin and cause dermatitis.

11.1.3 Corrosivity

Based on available data the classification criteria are not met.

11.1.4 Sensitisation

Based on available data the classification criteria are not met.

11.1.5 Repeated dose toxicity

There are no reports of long term adverse affects in man

11.1.6 Carcinogenicity

Not known to be carcinogenic.

11.1.7 Mutagenicity

Not known to be mutagenic

11.1.8 Toxicity for reproduction

Major ingredients have not been shown to cause significant fertility or development problems at levels which are not themselves toxic to the animal concerned.

Section 12: Ecological information

12.1 Toxicity

Product is of low acute ecotoxicity.

Fish	96h	LC50 = > 100 mg/l (Oncorhynchus Mykiss)
Daphnia	48h	EC50 = Not Determined but expected to be virtually non toxic.
Algae	72h	EC50 = Not Determined but expected to be virtually non toxic.

12.2 Persistence and Degradability

Product is inherently biodegradable and is expected to be readily biodegradable based on ingredients. OECD 302B (Zahn Wellans/EMPA) = 100% elimination at 21 days.

If admitted into adapted biological water treatment plants, no adverse effects on the degrading action of the live sludge are expected.

12.3 Bioaccumulative Potential

Not expected to bio accumulate. Log POW for all main ingredients = < 2.0

12.4 Mobility in soil

Soluble in water and will partition to aqueous phase. Volatilisation from water to air not expected. Mobile in soil until degraded.

12.5 Results of PBT and vPvB assessment.

Product is considered to be neither “persistent, bio-accumulating and toxic” nor “very persistent and very bio-accumulating” according to Annex XIII of Regulation EC 1907/2006.

12.6 Other adverse effects.

Not relevant

Section 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local and national regulations. In the E.U. used brake fluids are classified as Hazardous Waste. EWC number: 16.01.13.

Controlled incineration or recycling is recommended. Do not dispose of to landfill or drains. It is recommended that contaminated packaging is either incinerated or cleaned and sent for recycling.

Section 14: Transport information

14.1 UN No. / Class	None
14.2 UN Proper shipping name	N/A
14.3 Transport hazard classes	
Land Transport	
ADR	Not classified
RID	Not classified
Sea Transport	
IMO/IMDG	Not classified
Marine Pollutant	No
Air Transport	
IATA/IACO	Not classified
Inland waterways	
ADN	Not classified
14.4 Packing Group	N/A
14.5 Environmental Hazards	Not environmentally hazardous
14.6 Special precautions for user	None relevant
14.7 Transport in bulk (Annex II of Marpol)	Not classified.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations / legislation specific to the substance or mixture.

15.1.1 Chemical Inventories.

All ingredients are registered on the following inventories;

E.U. (EINECS / EILINCS)	USA (TSCA)	Canada (DSL/NDSL)	Australia (AICS)
Japan (ENCS)	China (IECSC)	Korea (ECL)	Philippine (PICCS)
New Zealand (NZLoC)	Taiwan		

15.1.2 WGK Hazard class

Assessed as WGK 1 (self assessment). Slight hazard to water.

15.1.3 Other

Usage should be in accord with all local and national regulations. In the U.K. this would include the Health and Safety at Work Act and the Control of Substances Hazardous to Health regulations (COSHH.)

15.2 Chemical safety assessment.

A chemical safety assessment has not been carried out for this product by the supplier.

Section 16: Other information

16.1 Abbreviations and acronyms used in this data sheet.

DPD –Dangerous Preparations Directive.

CLP –Classification, labelling and packaging of substances and mixtures regulation,

GHS –UN Globally Harmonised system of classification and labelling of chemicals

STOT –RE Specific Target Organ Toxicity –Repeated Exposure

R22 –Harmful if swallowed.

R35 –Causes severe burns

R36 –Irritating to eyes.

R50 –Very toxic to aquatic organisms

H302 –Harmful if swallowed

H314 – Causes severe skin burns and eye damage

H319 – Causes serious eye irritation

H400 –Very toxic to aquatic life.

16.2 Classification according to regulation 1999/45/EC (DPD);

“Irritant” R36 “Irritating to eyes”.

16.3 Labelling according to 1999/45/EC (DPD):

Hazard symbol



Irritant

Risk Phrases. R36 -Irritating to eyes

Safety phrases recommended; S2 Keep out of the reach of children. S26 (modified) In case of contact with eyes, rinse immediately with plenty of water for 10 min. If irritation persists seek medical advice. S46 –swallowed seek medical advice immediately and show this container or label.

16.4 Revisions

Changes to this issue of the MSDS are indicated by a bar in the margin.

16.5 Legal Disclaimer

The information contained herein is based on the present knowledge and experience of Orthene Chemicals Ltd. It in no way constitutes the users own assessment of work place risk as required by other Health and Safety legislation.

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