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1. Identification Of The Substance / Preparation And The Company / Undertaking

Product Identifier used on the label

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Other Means of identification.

None

Recommended use of the chemical and restrictions on use.

Use as a hydraulic fluid, production control fluid, storage fluid, flushing fluid, lubricant, corrosion prevention, laboratory use. For use in offshore or onshore oil and gas industry and industrial use.

Name, address and telephone numbers of the chemical manufacturer, importer or other responsible party.

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2. Hazard(s) Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

ASPIRATION TOXICITY: – Category 1

GHS Label elements

Hazard Pictograms



Signal Word

Danger

Hazard Statements

H304 – May be fatal if swallowed and enters airways.

Precautionary Statements

Prevention

None.

Response

P301 & 310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor / physician.
 P331 Do NOT induce vomiting.

Storage

P405 Store Locked up.

Disposal

P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous Ingredients

Base oil

Supplemental Hazard Information

None.

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Hazards not otherwise classified.

Physical-Chemical Properties

Contaminated surfaces may be extremely slippery.

High Pressure Applications

Injections through the skin as a result of contact with the product at high pressures constitute a major medical emergency. See notes to physician in section 4 of this safety data sheet.

3. Composition / Information On Ingredients

Mixture

Ingredient Name	Identifiers	Conc. (%)	Classification	Type
Base Oil	Confidential	60 - 70%	ASPIRATION TOXICITY: – Category 1	(1) (2)

Type

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

See section 8 for Occupational Exposure Limits, if available.

See sections 11 and 12 for more detailed information on health effects, symptoms and environmental hazards.

4. First Aid Measures

Description of first aid measures

General Advice

Seek medical advice if irritation or symptoms persist and show this safety data sheet.

Skin contact

Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact

Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation

If inhalation of fumes, mists or vapours causes irritation to the throat, nose or coughing, remove person to fresh air. Obtain medical advice if symptoms persist.

Ingestion

If contamination of mouth occurs, wash it out thoroughly with water. Do NOT induce vomiting. Never give anything to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

Protection of First Aiders

No action should be taken without suitable training or which involves any personal risk.

Most important symptoms and effects, both acute and delayed

See section 11 for detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

If swallowed, seek medical advice immediately and show this container or label.

High Pressure Applications

Injections through the skin due to contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious immediately, but within a few hours tissue can become discoloured, swollen, and painful with extensive subcutaneous necrosis. Surgical

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exploration should be undertaken without delay. Extensive and thorough debridement of the wound and underlying tissue is necessary to minimise tissue loss and to limit or prevent permanent damage. It should be noted that high pressure may force the product a considerable distance along tissue planes.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions: Carbon Dioxide (CO₂), dry chemical, foam, water fog.

Unsuitable extinguishing media

Do not use solid water stream as it may scatter and spread fire.

Special Hazards arising from the chemical

Hazardous Combustion Products

Burning produces irritating, toxic and obnoxious fumes including carbon and nitrogen oxides.

Special Protective Equipment and precautions for fire-fighters.

Promptly isolate the scene by removing all persons from the incidents vicinity if there is a fire, No action should be taken involving personal risk or without suitable training. Use water spray to cool unopened containers.

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operating in positive pressure mode and full turnout gear.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For Non-Emergency Personnel

Contact emergency personnel. No action should be taken without suitable training or involving personal risk. Evacuate surrounding areas and keep unnecessary and unprotected personnel from entering. Ensure adequate ventilation of the working area. Wear suitable protective equipment. Contaminated surfaces will be extremely slippery. Remove all sources of ignition. Do not breathe vapour or mist. Do not touch or walk through spilt material.

For Emergency Responders

Wear a suitable chemical protective suit, gloves and chemical boots. See also information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilt and runoff and contact with soil, drains, sewers or waterways. Prevent further spillage if safe. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil).

Methods and material for containment and cleaning up

Small Spill

Stop leak if possible without risk. Move containers from the spill area. Absorb with inert, absorbent material, transfer to suitable, labelled containers for disposal. Dispose of via a licensed water disposal contractor.

Large Spill

Contact emergency personnel immediately. Stop leak if possible without risk. Move containers from the spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements and confined areas. Collect and contain spillage with non-combustible, absorbent

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material e.g. sand, earth, vermiculite or diatomaceous earth and transfer to suitable, labelled containers for disposal. Dispose of via a licensed water disposal contractor.

Reference to other sections

For personal protective equipment refer to Section 8.

For disposal refer to Section 13.

7. Handling And Storage

Precautions for safe handling

Advice for safe handling

Wear suitable personal protective equipment. Avoid contact with eyes and skin and clothing. Avoid breathing vapours or spray mist. Keep in the original container or an approved alternative made from a compatible material and keep tightly closed when not in use. Do not reuse containers.

Advice on General Occupational Hygiene

Smoking, eating and drinking should be prohibited in areas where this material is handled, stored or processed. Wash thoroughly after use. Contaminated clothing and personal protective equipment should be removed before entering eating areas. Ensure that eyewash stations and chemical safety showers are close to the working location.

Conditions for safe storage, including any incompatibilities

Store in correctly labelled containers. Store in a cool, dry, well-ventilated area away from heat and direct sunlight. Keep containers tightly closed until ready for use. Where possible, design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from moisture and frost. Store in accordance with local regulations, away from incompatible materials, and store locked up (see section 10).

Specific end uses

Refer to section 1.2 and exposure scenarios in annex if applicable.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Exposure Limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Base Oil	TWA/PEL	5 mg/m ³	Mist

US. ACGIH Threshold Limit Values

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Base Oil	TWA	5 mg/m ³	Inhalable Fraction

US. NIOSH Pocket Guide to Chemical Hazards

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Base Oil	STEL	10 mg/m ³	Mist
	TWA	5 mg/m ³	Mist
	IDLH	2500 mg/m ³	Mist

Derived No effect Level

No DELs available.

Predicated No effect Concentration

No PNECs available.



Appropriate Engineering Controls

Activities involving chemicals should be assessed for their risk to health, to ensure exposure are adequately controlled. Personal protective equipment should be considered after other engineering control measures have been suitably evaluated. Personal protective equipment should conform to the appropriate standards, be kept in good condition and correctly maintained and be suitable for use. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information your national organisation for standards should be contacted.

Environmental exposure controls.

Emission from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels below their respective threshold limit value.

Individual Protection Measures such as personal protective equipment.

Eye / Face Protection

Safety glasses with side shields are considered minimum protection.

Respiratory protection

Avoid inhalation of mists, fumes or vapour generated in use. In case of insufficient ventilation, use suitable respiratory equipment.

Skin Protection

Hand protection

Wear chemical resistant gloves. Nitrile gloves with a minimum thickness of 0.4mm are recommended. Most gloves provide only a short time of protection before they should be discarded and replaced. Gloves should be chosen in consultation with the supplier / manufacturer and with a full assessment of the working conditions. This information does not replace suitability tests since glove protection varies depending on the conditions under which the product is used.

Body Protection

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that does not soak through to the skin. Overalls should be washed regularly. When the risk of exposure is high (e.g. if cleaning spillages or when at risk of splashing), chemical resistant aprons and or imperious chemical suits and boots will be required.

Environmental Exposure Controls

Emission from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels below their respective threshold limit value.

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9. Physical And Chemical Properties

Information on basic physical and chemical properties

(a) Appearance	Liquid
(b) Odour	Bland
(c) Odour Threshold	No data available
(d) pH	Not applicable
(e) Melting / freezing point	< -30°C
(f) Initial boiling point and boiling range	>220 °C
(g) Flash Point	No data available
(h) Evaporation rate	No data available
(i) Flammability (solid, gas)	No data available
(j) Upper / Lower Explosion Limit	No data available
(k) Vapour Pressure	<1 mmHg at 20 °C
(l) Vapour density	No data available
(m) Relative density	0.85 – 0.86 gcm ⁻³ @ 20 °C
(n) Water solubility	Insoluble.
(o) Partition coefficient n-octanol / water	Not suitable for measurement
(p) Auto ignition temperature.	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	9 cst @ 40 °C
(s) Explosive properties	No data available
(t) Oxidising properties	No data available

9.2 Other information

No additional information.

10. Stability And Reactivity

Reactivity

No data available.

Chemical Stability

Stable under normal operating conditions.

Possibility of hazardous reactions

None expected under normal operating conditions.

Conditions to avoid

No specific data.

Incompatible materials

No data available.

Hazardous decomposition products

Stable under normal conditions. Decomposition products may include carbon and nitrogen oxides.

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11. Toxicological Information

Information on toxicological effects

Information on likely routes of exposure

Routes of anticipated entry: Inhalation, Dermal.

Product Information

Potential Acute Health Effects

Inhalation

The product has a low vapour pressure and does not cause an inhalation exposure issue at ambient conditions. Contact with vapours, mists or sprays may cause irritation of the breathing passages. Aspiration of spray, mist or vapour may cause chemical pneumonitis.

Ingestion

Aspiration hazard if swallowed – Aspiration of spray, mist or vapour may cause chemical pneumonitis.

Skin Contact

No known significant effects or critical hazards.

Eye Contact

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

Symptoms may include – nausea, vomiting, headache, fatigue, dizziness.

Ingestion

Symptoms may include – nausea, vomiting.

Skin Contact

No known significant effects or critical hazards.

Eye Contact

No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation

Overexposure to inhalation of airborne droplets may cause irritation of the respiratory tract.

Ingestion

Ingestion of large quantities may cause nausea and diarrhoea.

Skin Contact

No known significant effects or critical hazards.

Eye Contact

May cause transient stinging or redness.

Potential Chronic Health Effects

General

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Acute Toxicity

No known significant effects or critical hazards.

Skin Corrosion / Irritation

No known significant effects or critical hazards.

Serious Eye-Damage / Irritation

No known significant effects or critical hazards.

Respiratory or skin sensitisation

No known significant effects or critical hazards.

Germ Cell Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive Toxicity

No known significant effects or critical hazards.

Target Organ effects (STOT) –

Single Exposure

No known significant effects or critical hazards.

Target Organ effects (STOT) –

Repeated Exposure

No known significant effects or critical hazards.

Aspiration Hazard

may cause chemical pneumonitis.

Aspiration hazard if swallowed – Aspiration of spray, mist or vapour

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Numerical measures of toxicity.

Acute Toxicity Estimates.

Not available.

The mixture contains no components which are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

12. Ecological Information

Toxicity

All components are classified as non hazardous for the environment.

Persistence and degradability

All components are readily biodegradable.

Bioaccumulative potential

All components are not considered bioaccumulative.

Mobility in soil

Soil / Water partition coefficient (K_{oc}) Not Available.

Mobility Not Available.

Results of PBT and vPvB assessment

All components are not considered to be PBT or vPvB.

Other adverse effects

No known significant effects or critical hazards.

13. Disposal Considerations

Waste Disposal.

The generation of waste should be avoided or minimised when possible. Disposal of surplus and non-recyclable products should be undertaken via a licensed waste disposal contactor. Significant quantities of waste product residues should not be disposed of via the foul sewer. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Empty containers completely. Retain label(s) on container. Dispose of through a licensed disposal. Where possible recycling is preferred to disposal or incineration. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

14.1 UN Number	Not regulated under ADR/RID, ADN, IMDG or IATA.
14.2 UN Proper Shipping Name	Not regulated under ADR/RID, ADN, IMDG or IATA.
14.3 Transport hazard class(es)	Not regulated under ADR/RID, ADN, IMDG or IATA.
14.4 Packing group	Not regulated under ADR/RID, ADN, IMDG or IATA.
14.5 Environmental hazards	Not hazardous.
14.6 Special Precautions for user	None.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.	Not regulated

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15. Regulatory Information

Safety health and environmental regulations specific for the product in question.

HCS Classification

This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

OSHA Specifically regulated substances.

Not applicable to the mixture or its components.

U.S. Federal regulations EPCRA/SARA Right to Know

United States inventory (TSCA 8b)

All components are listed.

SARA 302/304/311/312 extremely hazardous substances

No products were found.

SARA 302/304 emergency planning and notification

No products were found.

SARA 302/304/311/312 hazardous chemicals

No products were found.

SARA 311/312 SDS

No Products were found.

Clean Water Act (CWA) 307

No products were found.

Clean Water Act (CWA) 311

No products were found.

Clean Air Act (CAA) 112 accidental release prevention

No products were found.

Clean Air Act (CAA) 112 regulated flammable substances

No products were found.

Clean Air Act (CAA) 112 regulated toxic substances

No products were found.

SARA 313 Form R – Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

SARA 313 Form R – Supplier Notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Connecticut Carcinogen Reporting

None of the components are listed.

Connecticut Hazardous Material Survey

None of the components are listed.

Florida substances

None of the components are listed.

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Illinois Chemical Safety Act

None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act

None of the components are listed.

Louisiana Reporting

None of the components are listed.

Louisiana Spill

None of the components are listed.

Massachusetts Spill

None of the components are listed.

Massachusetts Substances

Base oil

Michigan Critical Material

None of the components are listed.

Minnesota Hazardous Substances

None of the components are listed.

New Jersey Hazardous Substances

Base Oil

New Jersey Spill

None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act

None of the components are listed.

New York Acutely Hazardous Substances

None of the components are listed.

New York Toxic Chemical Release Reporting

None of the components are listed.

Pennsylvania Right To Know Hazardous Substances

Base Oil

Rhode Island Hazardous Substances

None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

16. Other Information

Full Text of Classifications [CLP/GHS]

Acute Tox.1, H304 ASPIRATION TOXICITY: – Category 1

Full Text of abbreviated H statements

H304 Maybe fatal if swallowed and enters airways.

Abbreviations and Acronyms.

ADN	European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway.
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road.
AICS	Australian Inventory of Chemical Substances.

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ATE	Acute Toxicity Estimate.
BCF	Bioconcentration Factor.
CAS	Chemicals Abstract Service.
CSA	Chemical Safety Assessment.
CSR	Chemical Safety Report.
DMEL	Derived Minimal effect Level
DNEL	Derived No effect Level.
EINECS	European Inventory of Existing Commercial chemical Substances.
ENCS	Existing and New Chemical Substances.
ES	Exposure Scenario.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
IATA	International Air Transport Association.
IBC	Intermediate Bulk Container.
IESCS	Inventory of Existing Chemical Substances Produced or Imported in China.
IMDG	International Maritime Dangerous Goods.
KECI	Korea Existing Chemicals Inventory.
Koc	Soil Organic Carbon-Water Partitioning Coefficient.
MARPOL	Marine Pollution.
MARPOL 73/78	International Convention for the Prevention of Pollution From Ships 1973 as modified by the protocol of 1978.
OECD	Organisation for Economic Cooperation and Development.
PBT	Persistent, Bioaccumulative and Toxic.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
PNEC	Predicted No Effect Concentration.
REACH	Registration, Evaluation, Authorisation and restriction of Chemicals.
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail.
STOT-RE	Specific Target Organ Toxicity – Repeated Exposure.
STOT-SE	Specific Target Organ Toxicity – Single Exposure.
SVHC	Substance of Very High Concern.
TSCI	Taiwan Chemical Substance Inventory.
TWA	Time Weighted Average.
UN	United Nations.
UVCB	Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC	Volatile Organic Compound.
vPvB	Very Persistent and Very Toxic.

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Author D. Gleeson

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.