Safety Data Sheet
according to OSHA Hazard Communication Standards (HCS 2012); 29 CFR 1910.1200

Trade name :	HD32		
Revision date :	11.09.2024	**Version :**	2.0.1 (1.0.1)
Print date :	11.09.2024		

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

1.1 Product identifier
HD32

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Hydraulic Fluid
Uses advised against
No information available.

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/downstream user/distributor)
CNCmarket.ca Inc.

Street : 2360 Portland Street SE

Postal code/City : Calgary, AB, T2G5S2

Telephone : +1 825 454 66 97

E-mail address : info@CNCmarket.ca

1.4 Emergency telephone number
Chemtrec: **1-800-424-9300** (24h/7d)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to OSHA HCS 2012 (29 CFR 1910.1200)
None

2.2 Label elements
None

2.3 Other hazards
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description

Base Oil and Additives

Hazardous ingredients

None

Further ingredients

Distillates (petroleum), solvent-refined heavy paraffinic ; CAS No. : 64741-88-4

Weight fraction : ≥ 95 - < 100 %

Additives

Weight fraction : ≥ 1 - < 5 %

Additional information

The highly refined mineral oil contains less than 3% (w/w) DMSO-extract, according to IP 346 and is not considered to be carcinogenic.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

Following inhalation
Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

In case of skin contact
Change contaminated, saturated clothing. After contact with skin, wash with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact
Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion
Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water. Where appropriate artificial ventilation.

4.2 Most important symptoms and effects, both acute and delayed
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Foam, Extinguishing powder, Carbon dioxide (CO2), Water spray, Water mist,

Unsuitable extinguishing media
Strong water jet

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides (NOx), Sulphur oxides, Smoke and other incomplete combustion products.

5.3 Advice for firefighters
Special protective equipment for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information
Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protection equipment. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Keep away from sources of ignition - No smoking.

6.2 Environmental precautions
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up
For containment

Stop and contain spill/release if it can be done safely. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas. Put lids on containers immediately after use. Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists Keep away from sources of ignition - No smoking.

Protective measures

Measures to prevent fire

Usual measures for fire prevention.

Environmental precautions

Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Packaging materials

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage.

Hints on joint storage

Keep away from: Oxidizing agent

Do not store together with

Food and feedingstuffs

Further information on storage conditions

Recommended storage temperature : 5 - 40°C / 40 - 105°F.
Protect against : Frost Heat. UV-radiation/sunlight Water Humidity.
Storage stability : Product may be stored for up to 24 months under described conditions.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Ingredient	Exposure Limits
OIL MIST, MINERAL	**ACGIH TLV (United States)** TWA: 5 mg/m^3; 8 hours. Form: Inhalable fraction **NIOSH REL (United States)** TWA: 5 mg/m^3; 10 hours. STEL: 10 mg/m^3; 15 min.

	OSHA PEL (United States) TWA: 5 mg/m^3; 8 hours.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

8.2 Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye/face protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Tested protective gloves must be worn: DIN EN 374 The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material :

Wearing time with permanent contact:
Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),
Thickness of the glove material: 0,70 mm
Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):
Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVA (Polyvinyl alcohol),
Thickness of the glove material: 0,40 mm
Breakthrough time (maximum wearing time): > 30 min

Breakthrough time (maximum wearing time): : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Check leak tightness/impermeability prior to use.

Body protection

Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Respiratory protection

Usually no personal respirative protection necessary.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation.

General health and safety measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use. Do not put any product-impregnated cleaning rags into your trouser pockets. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : light yellow
Odour : characteristic

Safety relevant basis data

pH :	No data available	
Melting point/melting range :	-15	°C
	5	°F

Initial boiling point and boiling range :	(1013 hPa)		not applicable		
Flash point :			200 392	°C °F	DIN EN ISO 2592
Lower explosion limit :			0,6	Vol-%	
Upper explosion limit :			6,5	Vol-%	
Vapour pressure :	(20 °C)		No data available		
Density :	(15 °C)		0,853 7,109	g/cm³ lb/gal	DIN EN ISO 12185
Water solubility :	(20 °C)		insoluble		
log P O/W :			not applicable		
Ignition temperature :			No data available		
Cinematic viscosity :	(40 °C)	approx.	32	mm²/s	DIN EN ISO 3104
Decomposition temperature :			not determined		
Odour threshold :			No data available		
Relative vapour density :	(20 °C)		No data available		
Evaporation rate :			No data available		
Vapourisation rate :			No data available		
Oxidising liquids :	Not oxidising.				
Explosive properties :	Not explosive according to EU A.14.				

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
No information available.

10.2 Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
Oxidising agent, strong.

10.6 Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Toxicological data are not available. The statement is derived from the properties of the single components. Data apply to the main component.

Acute effects
No data available to indicate product may be an acute toxic oral, dermal or inhalation hazard.

Acute oral toxicity

Parameter :	LD50 (Distillates (petroleum), solvent-refined heavy paraffinic ; CAS No. : 64741-88-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (Distillates (petroleum), solvent-refined heavy paraffinic ; CAS No. : 64741-88-4)

Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (Distillates (petroleum), solvent-refined heavy paraffinic ; CAS No. : 64741-88-4)
Exposure route : Inhalation
Effective dose : > 5000 mg/m^3
Exposure time : 4 h

Irritant and corrosive effects

Not an irritant.

Sensitisation

not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

no known significant effects or critical hazards.

Germ cell mutagenicity

no known significant effects or critical hazards.

Reproductive toxicity

no known significant effects or critical hazards.

STOT-single exposure

STOT SE 1 and 2

Not expected to cause organ damage from a single exposure.

STOT-repeated exposure

STOT RE 1 and 2

Not expected to cause organ damage from prolonged or repeated exposure.

Aspiration hazard

Based on the available data the classification criteria for aspiration toxicity are not met. Based on physico-chemical properties of the material. For viscosity data, see section 9.

SECTION 12: Ecological information

12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Aquatic toxicity

harmless to aquatic organisms up to the tested concentration

12.2 Persistence and degradability

Abiotic degradation

Physicochemical elimination

The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

Biodegradation

Moderately/partially biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

Damage can be caused through mechanical influence of the product (eg. sticking).

12.7 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste treatment options

Appropriate disposal / Product

Consult the appropriate local waste disposal expert about waste disposal. Dispose according to legislation.

Appropriate disposal / Package

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

Other disposal recommendations

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

National regulations USA

HMIS Hazard Ratings:

Health Hazard: **1**
Fire Hazard: **1**
Reactivity: **1**

(4 – Severe, 3- -Serious, 2 – Moderate, 1 – Slight, 0 – Minimal)

National Fire Protection Association (U.S.A.):

Health: **1**
Flammability: **1**
Reactivity: **1**
Specific hazard:

(4 – Severe, 3- -Serious, 2 – Moderate, 1 – Slight, 0 – Minimal)

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

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15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System on the Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

16.4 Classification for mixtures and used evaluation method

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

None

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.