

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : JET-LUBE® FR HYDRAULIC OIL ISO 46

1.2. Recommended use and restrictions on use

Recommended use : Lubricants, Greases and Release Products

1.3. Supplier

Distributor

Jet-Lube
930 Whitmore Drive
75087 Rockwall, Texas - USA
T 1.972.771.1000
Regulatory@whitmores.com - www.jetlube.com

Distributor

Jet-Lube of Canada LTD
Units 8 & 9, 1260 - 34 Avenue
T9E 1K7 Nisku, AB - Canada
T 1.780.463.7441
Regulatory@whitmores.com - www.jetlube.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week
Within USA and Canada: 1.800.424.9300
Outside USA and Canada: +1.703.527.3887
(collect calls accepted)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin sensitization, H317 May cause an allergic skin reaction
Category 1

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms
(GHS CA)



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS CA) : P261 - Avoid breathing vapors.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
N-Phenyl-1-Naphthylamine	1-anilidonaphthalene / 1-naphthalenamine, N-phenyl- / 1-naphthylphenylamine / aceto PAN / additin 30 / algerite powder / alpha-phenylnaphthylamine / altafone A / amoco 32 / antigene PAN / antioxidant PAN / C.I. 44050 / N-(1-naphthyl)aniline / N-1-naphthylaniline / neozon A / neozone A / N-phenyl-alpha-naphthylamine / PAN (=N-phenyl-alpha-naphthylamine) / PANA / phenyl-alpha-naphthylamine / phenylnaphthylamine / PNA (=N-phenyl-alpha-naphthylamine) / vulkanox PAN	(CAS-No.) 90-30-2	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: light yellow
Odor	: mild characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 250 °C
Flash point	: > 250 °C Open Cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Vapor pressure at 50 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.92
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 46 mm ² /s @ 40 °C
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

N-Phenyl-1-Naphthylamine (90-30-2)	
LD50 oral rat	≈ 1625 mg/kg body weight Animal: rat, Animal sex: male, 95% CL: 1201 - 2197
LD50 oral	1625 mg/kg
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Animal sex: male
ATE CA (oral)	1625 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity : Not classified

N-Phenyl-1-Naphthylamine (90-30-2)	
NOAEL (animal/male, F0/P)	< 40 mg/kg body weight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)
NOAEL (animal/female, F0/P)	< 46 mg/kg body weight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)

STOT-single exposure : Not classified

: Not classified

STOT-repeated exposure

N-Phenyl-1-Naphthylamine (90-30-2)	
LOAEL (oral, rat, 90 days)	20 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	80 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Viscosity, kinematic	46 mm ² /s @ 40 °C

Symptoms/effects after skin contact : May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

N-Phenyl-1-Naphthylamine (90-30-2)	
LC50 fish 1	0.7 mg/l
EC50 Daphnia 1	0.3 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 (algae)	0.034 mg/l
NOEC chronic algae	0.0036 mg/l
BCF fish 1	427 – 2730 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	4.28 (Experimental value)

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N-Phenyl-1-Naphthylamine (90-30-2)	
Partition coefficient n-octanol/water (Log Koc)	3.227 (log Koc, SRC PCKOCWIN v2.0, QSAR)
LOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

N-Phenyl-1-Naphthylamine (90-30-2)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

N-Phenyl-1-Naphthylamine (90-30-2)	
Bioaccumulative potential	Potential for bioaccumulation ($500 \leq BCF \leq 5000$).
BCF fish 1	427 – 2730 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	4.28 (Experimental value)
Partition coefficient n-octanol/water (Log Koc)	3.227 (log Koc, SRC PCKOCWIN v2.0, QSAR)

12.4. Mobility in soil

N-Phenyl-1-Naphthylamine (90-30-2)	
Ecology - soil	Low potential for mobility in soil.
Partition coefficient n-octanol/water (Log Koc)	3.227 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Partition coefficient n-octanol/water (Log Pow)	4.28 (Experimental value)

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

N-Phenyl-1-Naphthylamine (90-30-2)	
Listed on the Canadian DSL (Domestic Substances List)	

15.2. International regulations

N-Phenyl-1-Naphthylamine (90-30-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

SECTION 16: Other information

Issue date : 10/27/2020

Full text of H-phrases:

H302	Harmful if swallowed
H317	May cause an allergic skin reaction

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H373	May cause damage to organs through prolonged or repeated exposure
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SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.