

REOLUBE® TURBOFLUID 46B

Version 1.3

Revision Date 08/16/2017

Print Date 11/09/2017

SECTION 1. IDENTIFICATION

Product name: REOLUBE® TURBOFLUID 46B

Product Use Description: Lubricants and lubricant additives

Company: LANXESS Canada Co./Cie
25 ERB STREET
Elmira, Ontario
N3B 2J3 Canada
Telephone: (US) +1 866-430-2775

Emergency telephone number: :
CANUTEC: 613-996-6666 (call collect) (CANUTEC)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricants and lubricant additives

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms :



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- Hazard statements : H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Phenol, isobutylenated, phosphate [Triphenyl phosphate $\geq 2.5 < 25\%$]	Not Assigned	$\geq 90 - \leq 100$

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.
Get medical attention.
- In case of skin contact : Wash skin thoroughly with soap and water for at least 15 minutes.
If skin irritation occurs: Get medical advice/ attention.
- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.
Do not give anything to drink.
Do NOT induce vomiting.
Get medical attention immediately.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical
Foam
- Specific hazards during fire-fighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to

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health.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid release to the environment.

Methods and materials for containment and cleaning up : Soak up with oil absorbent material. Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Do not breathe vapours or spray mist. Use with adequate ventilation.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
triphenyl phosphate	115-86-6	TWA	3 mg/m ³	CA AB OEL
		TWA	3 mg/m ³	CA BC OEL
		TWAEV	3 mg/m ³	CA ON OEL
		TWAEV	3 mg/m ³	CA QC OEL

Engineering measures : Use local ventilation to keep levels below established threshold values. Local ventilation is needed in the presence of airborne mists. Adequate general ventilation is recommended when handling to control airborne levels. Use mechanical ventilation for general area control.

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Personal protective equipment

- Respiratory protection : Wear a NIOSH/MSHA approved organic cartridge respirator if misting or vapor occurs, or there is potential for airborne exposures to exceed established threshold values. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Wear a NIOSH/MSHA approved self-contained breathing apparatus in emergency situations.
- Hand protection
- Remarks : Impervious butyl rubber gloves Replace when worn.
- Eye protection : Safety goggles
- Skin and body protection : Impervious clothing
- Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : clear
- Odour : odourless
- Odour Threshold : No data available
- pH : Not applicable
- Freezing point : < -30 °C
- Boiling point/boiling range : 220 - 270 °C
- Flash point : 250 °C
Method: Cleveland open cup
- Evaporation rate : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : 0.044 hPa (150 °C)
- Relative vapour density : No data available
- Relative density : 1.17 (20 °C)
- Solubility(ies)
Water solubility : insoluble

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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: 4.85 Method: OECD Test Guideline 107 Information refers to the main component.
Auto-ignition temperature	: 565 °C Auto-flammability
Decomposition temperature	: > 300 °C
Viscosity	
Viscosity, dynamic	: 43.2 - 49.7 mPa.s (40 °C)
Viscosity, kinematic	: 41.4 - 46.0 mm ² /s (40 °C)
Self-Accelerating decomposition temperature (SADT)	: Method: No information available.
Oxidizing potential	: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: No decomposition if stored normally.
Possibility of hazardous reactions	: Will not occur.
Conditions to avoid	: Exposure to moisture Contamination
Incompatible materials	: None known.
Hazardous decomposition products	: Nitrogen oxides (NO _x) Oxides of phosphorus Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	: LC50 (Rat): > 200 mg/l Exposure time: 1 h Test atmosphere: vapour

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Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Product:

Result: No skin irritation

Species: Rabbit

Result: No skin irritation

Remarks: Information given is based on data obtained from similar substances.

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Species: Rabbit

Result: No eye irritation

Remarks: Information given is based on data obtained from similar substances.

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

Phenol, isobutyleneated, phosphate [Triphenyl phosphate $\geq 2.5 < 25\%$]:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met., No effects on fertility and early embryonic development were detected.

Aspiration toxicity

Product:

No aspiration toxicity classification

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Further information

Product:

Remarks: Information given is based on data obtained from similar substances.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.4 mg/l
Exposure time: 96 h
Remarks: Information given is based on data obtained from similar substances.

LC50 (Pimephales promelas (fathead minnow)): 42.3 mg/l
Exposure time: 96 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.9 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.

Persistence and degradability

Components:

Phenol, isobutyleneated, phosphate [Triphenyl phosphate $\geq 2.5 < 25\%$]:

Biodegradability : GLP: yes
Remarks: Readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 3,976 - 4,183
Remarks: Information given is based on data obtained from similar substances.

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.
Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.
The product should not be allowed to enter drains, water courses or the soil.
In accordance with local and national regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Phenol, isobutyleneated, phosphate [Triphenyl phosphate ≥ 2.5 < 25%])
Class : 9
Packing group : III
Labels : Miscellaneous

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Phenol, isobutyleneated, phosphate [Triphenyl phosphate ≥ 2.5 < 25%])
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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	(Phenol, isobutylenated, phosphate [Triphenyl phosphate ≥ 2.5 < 25%])
Class	: 9
Packing group	: III
Labels	: 9
ERG Code	: 171
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
US.TSCA	: On TSCA Inventory

Canadian lists

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2): WHMIS Ingredient Disclosure List IDL: No component is listed on the WHMIS ingredients disclosure list.

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Can. Gaz. Part I, 135:12, 940): Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

Canada. CEPA 1999 Significant New Activity (SNAc) List: No substances are subject to a Significant New Activity Notification.

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SECTION 16. OTHER INFORMATION

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

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