

# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): TS-3487 Transformer Oil, Type II

Product Code(s): Not available.

Uses: A petroleum-based lubricant.

Company: Amalie Oil Company

Address: 1601 McCloskey Blvd; Tampa FL 33605; USA

Telephone Number: (813) 248-1988 Fax Number: (813) 248-1488

Emergency Telephone Number: For Hazardous Materials [or Dangerous Goods] Incident (24 hours/day)

ChemTel Inc. (800) 255-3924; +1 (813) 248-0585

Date Issued: November 22, 2021 Date Revised: November 22, 2021

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May

2012 (GHS). It may not meet requirements in other countries.

#### SECTION 2 HAZARDS IDENTIFICATION

GHS Signal Word:

**DANGER** 



GHS Aspiration Hazard (Category 1)

Classification: Aquatic Acute Toxicity (Category 3)

Aquatic Chronic Toxicity (Category 3)

GHS Hazard May be fatal if swallowed and enters airways Statements: Harmful to aquatic life with long lasting effects

GHS Prevention: Response:

Precautionary Statements:

Avoid release to the environment.

If swallowed: Immediately call a poison

center/doctor/hospital.

Do NOT induce vomiting.

Collect spillage.

D: 1

Storage: Disposal:

Store locked up. Dispose of contents/container in accordance

with local/regional/national/international

regulations.

Hazards Not

Otherwise Classified:

None.

GHS

Approximately < 10% of this mixture consists of ingredient(s) of unknown acute toxicity.

Assessment: Approximately < 10% of the mixture consists of ingredient(s) of unknown hazards to the

Aquatic environment

Revision Date: November 22, 2021 Page 1 of 9

#### COMPOSITION/INGREDIENTS **SECTION 3**

Component	CAS Number	EC Number	Concentration
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	≥ 90.0%
	Classification: Carc. 1B: H350 (*) Carc. 1B; H350: C ≥ 3.0 % DMSO Repr. 2; H361d: C ≥ 3.0 % DMSO Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm2/s (40°C)		
Di-tert-butylphenol, 2,6-	128-39-2	204-884-0	< 1.0%
	Classification: Skin Irrit. 2: H315; Aquatic Acute 1: H400; Aquatic Chronic 1: H410		

Note (\*): Components are highly refined and this hazard does not apply.

Other components are either non-hazardous or do not significantly contribute to the hazards of the product. Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4** FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, flush skin with plenty of soap and water while removing

contaminated clothing and shoes. Get medical attention immediately if irritation

develops and/or persists. Wash contaminated clothing before reuse.

If swallowed and feel unwell, immediately call a physician or poison control center. First Aid - Ingestion:

DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by

mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away

> from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin

artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms / Mild tissue inflammation, nausea, breathing difficulties, coughing.

Effects - Acute and

Delayed:

Advice to Physician: Treat symptomatically.

#### **SECTION 5** FIRE FIGHTING MEASURES

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or

foam is recommended. Carbon dioxide can displace oxygen. Use caution

when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable, but will burn in a fire. This product may give

rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive

and/or toxic.

Protective equipment and procedures for fire-fighters. Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures: Small spills: Wipe up spills with an absorbent towel/material and transfer

into suitable containers for recovery or disposal. Finally flush area with water/soap or an appropriate solvent, as this product is not appreciably

soluble in water alone.

Large spills: Contain spilled material if possible. Pump into suitable and

properly labeled containers.

Personal Precautions: Wear suitable protective clothing and equipment.

Environmental Precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

## SECTION 7 HANDLING AND STORAGE

Handling: Wear appropriate personal protection (See Section 8) when handling this material.

The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors, mists or sprays. Use in a well-ventilated area.

Storage: Keep container(s) tightly closed. Use and store this material at room temperature

away from sources of ignition, heat, direct sunlight and hot metal surfaces. Keep

away from any incompatible materials (see Section 10).

Additional Advice: Store in original container. Store as directed by the manufacturer.

#### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure

Standards:

Exposure limits are listed below, if they exist.

Distillates (petroleum), hydrotreated light

naphthenic:

(as petroleum distillates – naphtha) NIOSH REL: 350 mg/m3 TWA. NIOSH REL: 1800 mg/m3 STEL. OSHA PEL: 500 ppm (2000 mg/m3).

(as oil mist)

NIOSH REL: 5 mg/m3 TWA. NIOSH STEL: 10 mg/m3 TWA. OSHA PEL: 5 mg/m3 TWA.

Di-tert-butylphenol, 2,6-: ACGIH TLV: 2 mg/m3 TWA.

OSHA PEL: 10 mg/m3 TWA. NIOSH REL: 10 mg/m3 TWA.

**Engineering Control** 

Measures:

Engineering methods to prevent or control exposure are preferred. Methods

include process or personnel enclosure, mechanical ventilation (local

exhaust), and control of process conditions.

Respiratory Protection: A NIOSH certified self-contained breathing apparatus or air purifying

respirator with an organic cartridge may be used under conditions where

airborne concentrations are expected to exceed exposure limits.

Hand Protection: The use of gloves impervious to the specific material handled is advised to

prevent skin contact, possible irritation and skin damage (see glove

manufacturer literature for information on permeability).

Eye Protection: Approved eye protection (safety glasses with side-shields or goggles) to

# SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

safeguard against potential eye contact, irritation, or injury is recommended.

Depending on conditions of use, a face shield may be necessary.

Body Protection: Impervious clothing should be worn as needed to prevent skin contact.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear to light yellow
Odor: Characteristic, mild

Odor Threshold:

pH:

Not available.

Not available.

Melting Point/Range (°C/°F):

Not available.

Boiling Point/Range ( $^{\circ}$ C/ $^{\circ}$ F): > 176.0 $^{\circ}$ C / 348.8 $^{\circ}$ F

Flash Point (PMCC) (°C/°F): 149.0°C / 300.2°F (open cup)

Evaporation Rate: Not available. Flammability / Explosivity Limits in Air (%): Not available.

Vapor Pressure: < 0.075 mmHg (20°C) (based on constituents)

Vapor Density (Air = 1): > 5

Relative Density: 0.88 - 0.91
Solubility in Water: Insoluble
Partition Coefficient: Not available.

Autoignition Temperature (°C/°F): > 250°C / 482°F (based on constituents)

Decomposition Temperature (°C/°F): Not available.

Viscosity: 10.0 mm2/s (40°C)

Explosive Properties: None.

Oxidizing Properties: None.

Volatile Organic Content (VOC) (g/l): 845 - 900 g/l (as defined by 40CFR51.100)

#### SECTION 10 STABILITY AND REACTIVITY

Reactivity: Product will not undergo additional reaction.
Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Contact with incompatible materials, excessive heat.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Oxides of carbon, aliphatic and aromatic compounds, toxic by-

Products: products.

## SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity: This product is not expected to be appreciably harmful.

## SECTION 11 TOXICOLOGICAL INFORMATION

(Distillates (petroleum), hydrotreated light naphthenic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rat) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) 2.18 mg/l (4 hr) (aerosol – similar oil)

(Di-tert-butylphenol, 2,6-) Oral LD50 (rat) > 6000 mg/kg; Dermal LD50 (rat) >

2000 mg/kg

Skin Corrosion / Irritation: The product may be slightly irritating to the skin.

(Distillates (petroleum), hydrotreated light naphthenic) Slightly irritating to skin

(rabbit – similar oil).

(Di-tert-butylphenol, 2,6-) Non-irritating to skin (rabbit).

Serious Eye Damage /

The product may be slightly irritating to the eyes.

Irritation:

(Distillates (petroleum), hydrotreated light naphthenic) Slightly irritating to eye

(rabbit - similar oil).

(Di-tert-butylphenol, 2,6-) Non-irritating to eye (rabbit).

Respiratory or Skin Sensitization:

The product is not expected to be dermally sensitizing.

(Distillates (petroleum), hydrotreated light naphthenic) Not dermally

sensitizing (guinea pig – similar oil).

(Di-tert-butylphenol, 2,6-) Generally not dermally sensitizing (human patch

test).

Mutagenicity:

This product is not expected to be mutagenic.

(Distillates (petroleum), hydrotreated light naphthenic) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene

mutation assay and micronucleus assay - similar oils).

(Di-tert-butylphenol, 2,6-) Not mutagenic (Ames test, mammalian cell gene mutation assay, in vitro mammalian chromosome aberration test,

chromosome aberration assay and micronucleus assay).

Carcinogenicity:

This product is not expected to be carcinogenic.

(Distillates (petroleum), hydrotreated light naphthenic) In a 78 week study in mice by dermal application (0.25 ml dose rate applied once or twice a week), it was shown that there was no carcinogenic potential in sufficiently refined ail. Not also if in a carcinogenic potential in sufficiently

refined oil. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents).

(Di-tert-butylphenol, 2,6-) In a two generation oral study with rats, there was no increased incidence of adenomas or carcinomas of the liver.

Reproductive /

**Developmental Toxicity:** 

This product is not expected to be reproductively or developmentally harmful. (Distillates (petroleum), hydrotreated light naphthenic) In dermally-exposed rats at up to 1000 mg/kg/day during gestation, the developmental NOAEL was determined to be 125 mg/kg/day based on decreased fetal body weights and skeletal anomalies at the highest dose (similar oil).

(Di-tert-butylphenol, 2,6-) No adverse effects on reproduction were found in a two generation study with rats by oral administration. No significant

adverse effects on fetal development were observed.

Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure: (Distillates (petroleum), hydrotreated light naphthenic) No data.

(Di-tert-butylphenol, 2,6-) No data.

Chronic/Subchronic
Toxicity: Specific Target
Organ/Systemic Toxicity –
Repeated Exposure:

(Distillates (petroleum), hydrotreated light naphthenic) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/discoloration of organs and atrophy in male sex organs (similar oil).

(Di-tert-butylphenol, 2,6-) In a 42-day oral study in rats at up to 61 mg/kg/day, there was no significant adverse effects observed.

Aspiration Hazard: This product poses an aspiration hazard. It may cause chemical pneumonitis,

which can be fatal.

## SECTION 11 TOXICOLOGICAL INFORMATION

Additional Information: None.

## **SECTION 12 ECOLOGICAL INFORMATION**

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity: This product may be harmful to aquatic species.

(Distillates (petroleum), hydrotreated light naphthenic) LL50 (fathead minnow) > 100 mg/l/96 hr; EL50 (Daphnia magna) > 10000 mg/l/48 hr;

NOEL (algae) ≥ 100 mg/l/72 hr.

(Di-tert-butylphenol, 2,6-) LC50 (Zebra fish) > 0.57 mg/l/96 hr; EC50 (Daphnia magna) 0.48 mg/l/48 hr; EC50 (green algae) > 0.4 mg/l/72 hr.

Mobility: (Distillates (petroleum), hydrotreated light naphthenic) No data.

(Di-tert-butylphenol, 2,6-) No data.

Persistence/Degradability: (Distillates (petroleum), hydrotreated light naphthenic) Inherently

biodegradable (31% in 28 days).

(Di-tert-butylphenol, 2,6-) Not readily biodegradable (4.7% in 28 days).

Bioaccumulation: (Distillates (petroleum), hydrotreated light naphthenic) No data.

(Di-tert-butylphenol, 2,6-) Not expected to significantly bioaccumulate in aquatic organisms based on estimated BCF values of 465 to 1656.

Other adverse effects: None.

#### SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal

regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Container Disposal: Do not remove label until container is thoroughly cleaned. Empty

containers may contain hazardous residues. This material and its

container must be disposed of in a safe way.

## SECTION 14 TRANSPORT INFORMATION

DOT (US):

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packaging Group: None.

Reportable Quantity: None.

Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

# SECTION 14 TRANSPORT INFORMATION

Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packing Group: None.

Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

#### SECTION 15 REGULATORY INFORMATION

**US Toxic Substance Control** 

Act:

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

Canadian Domestic Substance

List:

All components of this product are listed on the Canadian Domestic

Substance List.

EU REACh: One or more components of this product may not have been pre-listed or

registered under REACh. Limited quantities may be permitted.

TSCA Sec.12(b) Export

Notification:

This product does not contain a chemical at or above de minimis

concentrations which requires reporting.

Canadian WHMIS

Classification:

None.

This product has been classified in accordance with the hazard criteria of

the CPR and the SDS contains all of the information required by the

CPR.

Massachusetts Right-To-Know: This product contains materials subject to disclosure under the

Massachusetts Right-To-Know Law:

- Distillates (petroleum), hydrotreated light naphthenic (as petroleum

distillates)

- Di-tert-butylphenol, 2,6-

New Jersey Right-To-Know: This product contains materials subject to disclosure under the New

Jersey Right-To-Know Law:

- Distillates (petroleum), hydrotreated light naphthenic (as petroleum

distillates)

- Di-tert-butylphenol, 2,6-

Pennsylvania Right-To-Know: This product contains materials subject to disclosure under the

Pennsylvania Right-To-Know Law:

- Distillates (petroleum), hydrotreated light naphthenic (as petroleum

distillates)

- Di-tert-butylphenol, 2,6-

California Proposition 65: This product does not contain materials which the State of California has

found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40

CFR 370):

Immediate (acute) hazard

(as of 2018, the EPA has adopted GHS hazard classifications)

SARA TITLE III-Section 313

(40 CFR 372):

This product does not contain materials which are listed in Section 313

at or above de minimis concentrations.

CERCLA Hazardous This product does not contain materials subject to reporting under

## SECTION 15 REGULATORY INFORMATION

Substance (40 CFR 302) CERCLA and Section 304 of EPCRA.

Water Hazard Class (WGK): This product is slightly water-endangering (WGK=1).

Other Chemical Inventories: Australia (AICS): All components of this product are listed.

China (IECSC): All components of this product are listed.

Japan (ENCS): All components of this product are listed.

Korea (KCI): All components of this product are listed.

Philippines (PICCS): All components of this product are listed.

Taiwan (TCSI): All components of this product are listed.

#### SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH: 1
NFPA Rating - FIRE: 1
NFPA Rating - REACTIVITY: 0

NFPA Rating - SPECIAL: NONE

Full text of H-Statements referred

to under Section 3:

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation
H350 May cause cancer

H361 Suspected of damaging fertility or the unborn child

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

SDS Date Issued: November 22, 2021

SDS Current Version: 1.0 Version Date: November 22, 2021

SDS Revision History: v1.0 Initial version.

Abbreviations: GHS: Globally Harmonized System of Classification and Labeling of

Chemicals

CAS#: Chemical Abstract Services Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

NFPA: National Fire Protection Association DOT: US Department of Transportation

RCRA: US Resource Conservation and Recovery Act

TLV: Threshold Limit Value
TWA: Time-Weighted Average
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit

WEEL: Workplace Environmental Exposure Levels AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50% NOAEL: No Observed Adverse Effect Level

NOEL: No Observed Effect Level EC50: Effective Concentration 50% LL50: Lethal Loading Rate 50%

# SECTION 16 OTHER INFORMATION

BCF Bioconcentration Factor BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

Tlm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET

Patty's Toxicology, 5th Edition

European Commission's Institute for Health and Consumer Protection

European Chemicals Agency (ECHA)

American Conference of Governmental Industrial Hygienists

International Agency for Research on Cancer United States National Toxicology Program

United States Occupational Safety and Health Administration

United States Department of Transportation

Supplier Material Safety Data Sheets

Disclaimer: The data contained herein is based on information that the company

believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of the company is authorized to vary any of such data. The company and its agents disclaim all liability for any action taken or

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