

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation

(February 11, 2015).

Revision Date: 10/10/2023 Supersedes: 08/01/2021 Version: 1.1

# **SECTION 1: IDENTIFICATION**

### 1.1. Product Identifier

Product Form: Mixture Product Name: Beta Fluid

**1.2.** Intended Use of the Product: Fire resistant transformer oil. For professional use only.

### 1.3. Name, Address, and Telephone of the Responsible Party

# Company

Soltex, Inc. (Synthetic Oils & Lubricants of Texas) 4 Waterway Square Place, Suite 275 The Woodlands, TX 77380

(281) 587-0900

soltexinc.com

### 1.4. Emergency Telephone Number

Emergency Number : (800)-424-9300 (CHEMTREC); (281)-587-0900 (Other Safety Information)

# **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Chronic aquatic toxicity, Category 4.

H413: May cause long lasting harmful effects to aquatic life.

### 2.2. LABEL ELEMENTS

Pictograms: Not applicable

Signal Word: Not applicable

### **Hazard Statements:**

H413: May cause long lasting harmful effects to aquatic life.

# **Precautionary Statements:**

P273: Avoid release to environment.

P501: Dispose of contents and container in accordance with local regulations.

**Contains:** Hydrotreated heavy paraffinic distillates

# 2.3. OTHER HAZARDS

Physical / Chemical Hazards: No significant hazards.

# **Health Hazards:**

High-pressure injection under skin may cause serious damage. Airborne low-viscosity petroleum oils can affect lungs.

## **Environmental Hazards:**

No significant hazards. Material is not considered to be persistent, bioaccumulating nor toxic (PBT) nor considered to be very persistent nor very bioaccumulating (vPvB).

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. SUBSTANCES

This material is regulated as a mixture.

### 3.2. MIXTURES

This material is defined as a mixture

# Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

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Name	CAS#	EC#	Registration#	Concentration w/w	GHS/CLP classification
Distillates, hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627- 25-0014	0 - 100%	none
3,5-di-tert butyl-4hydroxyhydrocinnamic acid, C7-9-branched alkyl esters	125643-61-0	406-040-9	01-0000015551- 76-0000	0-2%	Aquatic Chronic 4; H413
2,6-di-tert butyl-p-cresol (butylated hydroxytoluene (BHT))	128-37-0	204-881-4		0-2%	Aquatic Acute 1; H400 Aquatic Chronic 1, H410

Name	CAS#	EC#	Registration#	Concentration*	DSD Symbols/Risk Phrases
Distillates, hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627- 25-0014	0 - 100%	none
3,5-di-tert butyl-4hydroxyhydrocinnamic acid, C7-9-branched alkyl esters	125643-61-0	406-040-9	01-0000015551- 76-0000	0-2%	Xn;R53
2,6-di-tert butyl-p-cresol (butylated hydroxytoluene (BHT))	128-37-0	204-881-4		0-2%	N;R50/53

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

For full text of hazard statements and risk phrases., see SDS Section 16.

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

### 4.1. DESCRIPTION OF FIRST AID MEASURES

### **INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

### **SKIN CONTACT**

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### **INGESTION**

Seek immediate medical attention. Do not induce vomiting.

# 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Headache, dizziness, drowsiness, nausea and other CNS effects. Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

# **SECTION 5: FIRE-FIGHTING MEASURES**

### **5.1. EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. **Unsuitable Extinguishing Media:** Straight streams of water

# 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

### **5.3. ADVICE FOR FIRE FIGHTERS**

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

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Unusual Fire Hazards: Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

### **FLAMMABILITY PROPERTIES**

Flash Point [Method]: 250°C (482°F) [ASTM D-92]

Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available LEL: No data available

Autoignition Temperature: No data available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

### **NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### **PROTECTIVE MEASURES**

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

#### 6.2. ENVIRONMENTAL PRECAUTIONS

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Land Spill:** Stop leak if you can do so without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

### **6.4. REFERENCES TO OTHER SECTIONS**

See Section 6.1.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid breathing mists or vapor. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or grounding procedures. However, bonding and grounding may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

## 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabeled containers.

7.3. SPECIFIC END USES: Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **8.1. CONTROL PARAMETERS**

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### **EXPOSURE LIMIT VALUES**

### Exposure limits/standards for materials that can be formed when handling this product:

When mists/aerosols can occur the following is recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction).

#### 8.2. EXPOSURE CONTROLS

#### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided whenever the material is heated or mists are generated.

### PERSONAL PROTECTION

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.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust or oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colorless Odor: Odorless

Odor Threshold: No data available

pH: No data available

Melting Point: No data available Freezing Point: No data available

Initial Boiling Point / and Boiling Range: >315°C (599°F)

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Flash Point [Method]: 250°C (482°F) Minimum [ASTM D-92] Evaporation Rate (n-butyl acetate = 1): No data available

Flammability (Solid, Gas): Not applicable

Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available LEL: No data available

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C

Vapor Density (Air = 1): No data available Relative Density (at 15 °C): 0.85-0.87 Solubility(ies): water Negligible

Partition coefficient (n-Octanol/Water Partition Coefficient): No data available

**Autoignition Temperature:** 351°C (664°F) **Decomposition Temperature:** No data available

Viscosity: 108.8 cSt (108.8 mm2/sec) at 40°C | 11.9 cSt (11.9 mm2/sec) at 100°C

**Explosive Properties:** None **Oxidizing Properties:** None

9.2. OTHER INFORMATION

**Pour Point:** - 15°C (5°F) [ASTM D-97]

### SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY: See sub-sections below.

10.2. CHEMICAL STABILITY: Material is stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

**10.4. CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

10.5. INCOMPATIBLE MATERIALS: Strong oxidizers

10.6. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: (Rat) 4 hour(s) LC50 > 5 mg/l	Minimally toxic. Based on test data for structurally similar
(Aerosol)	materials. Test(s) equivalent or similar to OECD Guideline 403
Irritation (Rat): No end point data.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Test scores or other study results do not	Test(s) equivalent or similar to OECD Guideline 401 420 423
meet criteria for classification.	
Skin	
Acute Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar
Test scores or other study results do not	materials. Test(s) equivalent or similar to OECD Guideline 402
meet criteria for classification.	
Skin Corrosion/Irritation (Rabbit):	Negligible irritation to skin at ambient temperatures. Based on test
Data available. Test scores or other study	data for structurally similar materials. Test(s) equivalent or similar to
results do not meet criteria for classification.	OECD Guideline 404
Eye	
Serious Eye Damage/Irritation (Rabbit):	May cause mild, short-lasting discomfort to eyes. Based on test data
Data available. Test scores or other study	for structurally similar materials. Test(s) equivalent or similar to OECD
results do not meet criteria for classification.	Guideline 405
Sensitization	
Respiratory Sensitization: No end point data.	Not expected to be a respiratory sensitizer.
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for structurally
Test scores or other study results do not	similar materials. Test(s) equivalent or similar to OECD Guideline 406
meet criteria for classification.	429

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Aspiration: Data available.	May be fatal if swallowed and enters airways. Based on physico- chemical properties of the material.
Germ Cell Mutagenicity: Data available. Test	Not expected to be a germ cell mutagen. Based on test data for
scores or other study results do not meet criteria for classification.	structurally similar materials. Test(s) equivalent or similar to OECD Guideline 471 473 474 476
Carcinogenicity: No end point data.	Not expected to cause cancer.
Reproductive Toxicity: Data available. Test scores or other study results do not meet criteria for classification.	Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 415
Lactation: No end point data.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: Data available. Test scores or other study results do not meet criteria for classification.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 407 408

### **OTHER INFORMATION**

### For the product itself:

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans.

# **SECTION 12: ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

### 12.1. TOXICITY

Material -- Not expected to be harmful to aquatic organisms.

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms

# 12.2. PERSISTENCE AND DEGRADABILITY

Material -- Expected to be inherently biodegradable

- 12.3. BIOACCUMULATIVE POTENTIAL Not determined.
- 12.4. MOBILITY IN SOIL Not determined.

### 12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6. OTHER ADVERSE EFFECTS - No adverse effects are expected.

### **ECOLOGICAL DATA**

### **Ecotoxicity**

Test	Duration	Organism Type	Test Results
Aquatic - Acute Toxicity	48 hour(s)	Daphnia magna	EL50 > 1000 mg/l: not toxic at water
			solubility
Aquatic - Acute Toxicity	72 hour(s)	Alga	NOELR 1000 mg/l: not toxic at water
			solubility
Aquatic - Acute Toxicity	72 hour(s)	Alga	EL50 > 1000 mg/l: not toxic at water
			solubility
Aquatic - Acute Toxicity	96 hour(s)	Oncorhynchus	LL50 > 1000 mg/l: not toxic at water
		mykiss	solubility
Aquatic - Chronic Toxicity	21 day(s)	Daphnia magna	NOELR 125 mg/l: not toxic at water
			solubility

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## Persistence, Degradability and Bioaccumulation Potential

This material is not expected to be readily biodegradable. Expected to be ultimately bioderadable.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

### 13.1. WASTE TREATMENT METHODS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

# **SECTION 14: TRANSPORT INFORMATION**

LAND (ADR/RID): 14.1-14.6 Not Regulated for Land Transport

INLAND WATERWAYS (ADNR/ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport

SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDG-Code

SEA (MARPOL 73/78 Convention - Annex II):

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

Not classified according to Annex II **AIR (IATA): 14.1-14.6** Not Regulated for Air Transport

HTS Code: 2710.19.4545 Insulating or transformer oil Electrical Insulating Oils

### **SECTION 15: REGULATORY INFORMATION**

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: IECSC, PICCS, ENCS, KECI, TSCA, DSL,

AICS, EINECS

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

Acronym	Full text
AICS	Australian Inventory of Chemical Substances
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	Domestic Substance List (Canada)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korean Existing Chemicals Inventory
NDSL	Non-Domestic Substances List (Canada)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (U.S. inventory)
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
LC	Lethal Concentration

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LD Lethal Dose
LL Lethal Loading
EC Effective Concentration
EL Effective Loading

NOEC No Observable Effect Concentration
NOELR No Observable Effect Loading Rate

# KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):

R53; May cause long-term adverse effects in the aquatic environment.

# KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

Aquatic Chronic 4 H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Safety Data Sheet updated in accordance with the provisions of OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200.

Revision Date : 10/10/2023

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

### Party Responsible for the Preparation of This Document

Synthetic Oils and Lubricants of Texas 4 Waterway Square Place, Suite 275 The Woodlands, TX 77380 (281) 587-0900

www.soltexinc.com

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.

Soltex NA GHS SDS

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