

Beta Fluid

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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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/m³ - 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)

Flash Point [Method]: 275°C (527°F) Minimum [ASTM D-92]

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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) [test method unavailable]

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

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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 scores or other study results do not meet criteria for classification. | Not expected to be a germ cell mutagen. Based on test data for 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 mykiss | LL50 > 1000 mg/l: not toxic at water 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 biodegradable.

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

EU HTS Code: 2710.19.93 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

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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