



**Safety Data Sheet: Signal Tranz TO-4 Fluid**  
**Revision Date: January 2<sup>nd</sup> 2024**

**SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT**

**Product Name:** Signal Tranz TO-4- Fluid  
**Intended Use:** Drive Train Fluid

**COMPANY IDENTIFICATION**

**Supplier:** Beacon Lubricants  
P.O Box 754  
Edinboro, PA 16412

**Emergency Telephone:** 1-877-734-7334 – Beacon Lubricants, Inc.  
**Emergency Telephone:** 1-800-424-9300 (24 hours) – Chemtrec approval  
**Website:** www.beaconlubricants.com

**SECTION 2 HAZARDS IDENTIFICATION**

This material is not hazardous according to regulatory guidelines (M)SDS Section 15)

**HAZARDS NOT OTHERWISE CLASSIFIED:** Not Applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

COMPONENTS	CAS NUMBER	AMOUNT
Highly refined mineral oil (C15 – C50)	Mixture	70 – 99 % wt/wt
Zinc alkyl dithiophosphate	68649-42-3	0.5 - < 2.5 %wt/wt
Branched alkylphenol and Calcium branched alkylphenol	74499-35-7 & 132752-19-3	0.1 – 1 %wt/wt

**SECTION 4****FIRST AID MEASURES****First Aid: Eyes**

No specific first aid measure required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**First Aid: Skin**

For skin contact, wash immediately with soap and water.

**First Aid: Ingestion**

No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**First Aid: Inhalation**

Not specific first air measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort continues.

**Expected Acute and Delayed Symptoms**

No additional information available.

**Important Symptoms and Effects**

No additional information available.

**Protection of First-Aiders**

No additional information available.

**First Aid: Notes to Physician**

No additional information available

**SECTION 5****FIRE FIGHTING MEASURES****General Fire Hazards**

See Section 9 for Flammability Properties. Not a fire hazard

**Hazardous Combustion Products**

Flammable/poisonous gases may be released upon combustion.

**Extinguishing Media**

Dry chemical, foam, carbon dioxide. Water fogs should be used to cool containers exposed to extreme heat.

**Unsuitable Extinguishing Media**

None identified

**Fire Fighting Equipment/Instructions**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Remove all individuals from area who are not properly trained in firefighting.

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

**SECTION 6****ACCIDENTAL RELEASE MEASURES****Recovery and Neutralization**

Dike the spilled material, where this is possible. Stop the flow of material, if this is without risk.

**Materials and Methods for Clean-Up**

Absorb spill with inert material. Shovel material into appropriate container for disposal.

**Emergency Measures**

In case of large spills, follow all facility emergency response procedures.

**Personal Precautions and Protective Equipment**

Remove all individuals from area who have not been properly trained in emergency medical response.

**Environmental Precautions**

This product may be classified as oil under section III of the Clean Water Act. Spills entering surface waters or any water courses or sewers entering surface waters that cause a sheen, must be reported to the Coast Guard toll free number (800) 424-8802. In case of accident or road spill, notify Chemtrec, (800) 424-9300.

**Prevention of Secondary Hazards**

No additional information available.

**SECTION 7****HANDLING AND STORAGE****Handling Procedures**

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

**Shipping and Storing Procedures**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep out of reach of children.

**Incompatibilities:**

Oxidizing Agents

**SECTION 8****EXPOSURE CONTROLS / PERSONAL PROTECTION**

## Component Exposure Limits

**Engineering Controls:** Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Eye/Face Protection:** Safety Glasses

**Skin Protection:** Normal work gloves are appropriate

**Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels.

**General Hygiene:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contained clothing.

## 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.**

### GENERAL INFORMATION

**Physical State:** Liquid

**Color:** Amber

**Odor:** Petroleum odor

**Odor Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15°C):** 0.87-0.89 kg/l

**Flammability (Solid, Gas):** N/A

**Flash Point [Method]:** 190°C

**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0

**Autoignition Temperature:** N/D

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

**Decomposition Temperature:** N/D

**Vapor Density (Air = 1):** > 2 at kPa (0.1 mm Hg) at 20°C

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



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**Evaporation Rate (n-butyl acetate = 1):** N/D

**pH:** N/A

**Log Pow (n-Octanol/Water Partition Coefficient):** N/D

**Solubility in Water:** Negligible

**Viscosity Range:**

40-305 @ 40°C

6-26 @ 100°C

**Oxidizing Properties:** See Hazards Identification Section.

#### OTHER INFORMATION

**Freezing Point:** N/D

**Melting Point:** N/A

**Pour Point:**

**DMSO Extract (mineral oil only), IP-346:** < 3 % wt

### SECTION 10

### STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions

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

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

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

### SECTION 11

### TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on the assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion</b>	



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Acute Toxicity: No end point data for material	Minimally Toxic. Based on assessment of components.
<b>Skin</b>	
Acute Toxicity: No end point data for material	Minimally Toxic. Based on assessment of components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material	May cause mild, short-lasting discomfort to eyes. Based on assessment of components.
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material	Not expected to be a respiratory sensitizer
Skin Sensitization: No end point data for material	Not expected to be a skin sensitizer. Based on assessment of the components.
<b>Aspiration:</b> Data available	Not expected to be an aspiration hazard. Based on physico-chemical properties of the materials.
<b>Germ Cell Mutagenicity:</b> No end point data for material	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material	Not expected to cause cancer. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material	Not expected to be a reproductive toxicant. Based on the assessment of the components
<b>Lactation:</b> No end point data for material	Not expected to cause harm to breast-fed children
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material	Not expected to cause organ damage from a single exposure
Repeated Exposure: No end point data for material	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.



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## OTHER INFORMATION

**For the product itself:** Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Oil Mist (highly refined oils): Animals exposed to high concentrations of mist developed oil retention, inflammation, and oil granulomas in the respiratory tract. Oils exposed to high temperatures, cracking conditions, or mixing with tramp / used oils may introduce polycyclic aromatic compounds or microbial contaminants that could result in cancer or severe respiratory hazards.

### Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

**The following ingredients are cited on the lists below: None.**

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

## SECTION 12

## ECOLOGICAL INFORMATION

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

### ECOTOXICITY

Material — Not expected to be harmful to aquatic organisms.

### MOBILITY

Base oil component—Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and waste water solids.

### PERSISTENCE AND DEGRADABILITY





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### **Biodegradation:**

Base Oil Components— Expected to be inherently biodegradable

### **BIOACCUMULATION POTENTIAL**

Components — Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bio concentration or limit bioavailability

### **OTHER ECOLOGICAL INFORMATION**

**VOC:** 0 G/L [ASTM E1868-10]

## **SECTION 13**

## **DISPOSAL CONSIDERATIONS**

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

### **DISPOSAL RECOMMENDATIONS**

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.

### **REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**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**





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**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

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

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15

## REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29, CFR 1910. 1200.

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

**EPCRA SECTION 302:** This material contains no extremely hazards substances.

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** None

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**The following ingredients are cited on the lists below: None**

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P6 CARC	15 = MI 293	

Code Key: CARC=Carcinogen; REPRO=Reproductive

## SECTION 16

## OTHER INFORMATION



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N/D = Not determined, N/A = Not applicable

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

Updates made in accordance with implementations of GHS requirements.

The information and recommendations contained herein are, to the best of Beacon Lubricants knowledge and belief, accurate and reliable as of the date issued. You can contact Beacon Lubricants to insure that this document is the most current available from Beacon Lubricants. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for intended use. If the buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.