## SAFETY DATA SHEET



### Section 1. Identification

Product name Tribol ATO 100 LS ZF

**SDS** # 459745 **Historic SDS** #: 71938

Code 459745-US03

Relevant identified uses of the substance or mixture and uses advised against

Product use Gear lubricant .

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Supplier Castrol Industrial North America, Inc.

150 W. Warrenville Road Naperville, IL 60563

Product Information: +1-877-641-1600

BP Lubricants USA Inc. 1500 Valley Road Wayne, NJ 07470

Telephone: (973) 633-2200

EMERGENCY SPILL

1 (800) 424-9300 CHEMTREC (USA)

INFORMATION:

### Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture SKIN SENSITIZATION - Category 1

**GHS label elements** 

**Hazard pictograms** 



Signal word Warning

**Hazard statements** May cause an allergic skin reaction.

**Precautionary statements** 

Prevention Wear protective gloves. Avoid breathing vapor. Contaminated work clothing must not

be allowed out of the workplace.

Response IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: Get medical attention.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

Defatting to the skin.

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### Section 3. Composition/information on ingredients

Highly refined mineral oil and additives.

Substance/mixture Mixture

| Ingredient name                   | CAS number                        | %    |
|-----------------------------------|-----------------------------------|------|
| l, 2, 3                           | Varies - See Key to abbreviations | ≥90  |
| 3-(2-dodecenyl)succinic anhydride | 19780-11-1                        | ≤0.3 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and

remove any contact lenses. Get medical attention.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

> while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before

reuse. Get medical attention.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Do not induce vomiting unless directed to do so by medical personnel. Never give Ingestion

anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects

persist or are severe.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

Specific treatments No specific treatment.

### Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing

media

media

Do not use water jet.

Specific hazards arising

from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

Combustion products may include the following:

carbon dioxide carbon monoxide

Special protective actions

for fire-fighters

Version 2

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

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### Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Contact emergency personnel.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

| Ingredient name                   | Exposure limits  |
|-----------------------------------|--|
| Sase oil - highly refined         | ACGIH TLV (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 11/2009 Form: Inhalable fraction OSHA PEL (United States).  TWA: 5 mg/m³ 8 hours. Issued/Revised: 6/1993 |
| 3-(2-dodecenyl)succinic anhydride | None.  |

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

# Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

# **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures

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 contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Hand protection

Safety glasses with side shields.

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

#### **Body protection**

Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

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### Section 8. Exposure controls/personal protection

this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer

and with a full assessment of the working conditions.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Color
Mmber. [Light]
Odor
Not available.
Odor threshold
PH
Not available.
Melting point
Not available.
Not available.
Not available.
Not available.
Not available.

Flash point Closed cup: 170°C (338°F) [Pensky-Martens.]

**Evaporation rate** Not available.

Flammability (solid, gas) Not applicable. Based on - Physical state

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available.
Vapor density Not available.

**Density** <1000 kg/m³ (<1 g/cm³) at 15.6°C

Solubility insoluble in water.

Partition coefficient: n-

octanol/water

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Kinematic: 22 mm<sup>2</sup>/s (22 cSt) at 40°C

### Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid No specific data.

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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### **Section 11. Toxicological information**

### Information on toxicological effects

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Skin contact** May cause an allergic skin reaction.

Inhalation Vapor inhalation under ambient conditions is not normally a problem due to low vapor

pressure.

**Ingestion** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation redness dryness cracking

**Inhalation** May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal

decomposition products occurs.

Ingestion No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

#### Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

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### **Section 12. Ecological information**

#### **Toxicity**

No testing has been performed by the manufacturer.

#### Persistence and degradability

Expected to be biodegradable.

#### Bioaccumulative potential

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

Not available.

Mobility Non-volatile. Liquid. insoluble in water.

Other adverse effects No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

|                               | DOT Classification  | TDG Classification | IMDG           | IATA           |
|-------------------------------|---|--------------------|----------------|----------------|
| UN number                     | Not regulated.  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name       | -   | -                  | -              | -              |
| Transport<br>hazard class(es) | -   | -                  | -              | -              |
| Packing group                 | -   | -                  | -              | -              |
| Environmental hazards         | No.   | No.                | No.            | No.            |
| Additional information        | Special provisions Petroleum oil, not regulated in containers less than 3500 gallons. | -                  | -              | -              |

Special precautions for user Not available.

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### Section 14. Transport information

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

Not available.

### Section 15. Regulatory information

U.S. Federal regulations

**United States inventory** 

(TSCA 8b)

All components are listed or exempted.

TSCA 5(a)2 proposed significant new use rules: Benzaldehyde, 2-hydroxy-5-nonyl-,

oxime, branched

**SARA 302/304** 

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification Immediate (acute) health hazard

**SARA 313** 

Form R - Reporting

Supplier notification

This product does not contain any hazardous ingredients at or above regulated

requirements

thresholds.

This product does not contain any hazardous ingredients at or above regulated thresholds.

State regulations

**Massachusetts** None of the components are listed. **New Jersey** None of the components are listed.

The following components are listed: MINERAL OIL MIST Pennsylvania

California Prop. 65 No products were found.

Other regulations

**Australia inventory (AICS)** At least one component is not listed. **Canada inventory** At least one component is not listed. China inventory (IECSC) At least one component is not listed. Japan inventory (ENCS) At least one component is not listed. Korea inventory (KECI) At least one component is not listed. **Philippines inventory** At least one component is not listed.

(PICCS)

**Taiwan Chemical Substances Inventory** 

(TCSI)

**REACH Status** 

For the REACH status of this product please consult your company contact, as

identified in Section 1.

Not determined.

### Section 16. Other information

#### National Fire Protection Association (U.S.A.)

**Flammability** Health Instability/Reactivity **Special** 

<u>History</u>

03/29/2016. Date of issue/Date of

revision

Date of previous issue 12/31/2014.

Product Stewardship Prepared by

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### Section 16. Other information

#### Key to abbreviations

ACGIH = American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS Number = Chemical Abstracts Service Registry Number

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet

STEL = Short term exposure limit TWA = Time weighted average

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United

Nations Committee of Experts on the Transport of Dangerous Goods.

Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4,

64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9,

64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

### ▼ Indicates information that has changed from previously issued version.

#### Notice to reader

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