# SAFETY DATA SHEET ( Castro



## Section 1. Identification

**Product name** Tribol 1740/320

SDS# 454403 **Historic SDS #:** 75821

Code 454403-US03

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

**Product use** Lubricant.

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

company representative.

Castrol Industrial North America, Inc. **Manufacturer** 

> 150 W. Warrenville Road Naperville, IL 60563

Supplier Castrol Industrial North America, Inc.

> 150 W. Warrenville Road Naperville, IL 60563

Product Information: +1-877-641-1600 1 (800) 424-9300 CHEMTREC (USA)

**EMERGENCY SPILL 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** 

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

be allowed out of the workplace.

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

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

Synthetic lubricant and additives.

Substance/mixture Mixture

Ingredient name	CAS number	%
Base oil - highly refined	Varies	≥50 - <75
3-(2-dodecenyl)succinic anhydride	19780-11-1	≥0.1 - <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.

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

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.

media

Unsuitable extinguishing

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

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
	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

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 suitable 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 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.

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## Section 8. Exposure controls/personal protection

**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 Clear Yellow.

Odor Mild

Not available. **Odor threshold** pH Not available. **Melting point** Not available. Not available. **Boiling point** 

Flash point Open cup: 266°C (510.8°F) [Cleveland.]

**Evaporation rate** Not available.

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

Lower and upper explosive

(flammable) limits

Not available.

Not available. Vapor pressure Vapor density Not available.

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

Solubility insoluble in water. Partition coefficient: n-Not available.

octanol/water

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

**Viscosity** Kinematic: 320 mm<sup>2</sup>/s (320 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 Avoid all possible sources of ignition (spark or flame).

Reactive or incompatible with the following materials: oxidizing materials, acids and Incompatible materials

alkalis.

**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 No specific data. 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

Not available. Potential delayed effects

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

#### Potential chronic health effects

**General** No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. No known significant effects or critical hazards. **Teratogenicity Developmental effects** No known significant effects or critical hazards. **Fertility effects** No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### **Acute toxicity estimates**

Not available.

# Section 12. Ecological information

#### **Toxicity**

No testing has been performed by the manufacturer.

#### Persistence and degradability

Expected to be biodegradable.

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# Section 12. Ecological information

#### Bioaccumulative potential

Not available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

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 hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user

Not available.

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

Not available.

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# 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

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

requirements thresholds.

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

thresholds.

State regulations

Massachusetts None of the components are listed.

New Jersey The following components are listed: MINERAL OIL (UNTREATED and MILDLY

TREATED)

**Pennsylvania** None of the components are listed.

California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause

cancer.

Ethyl acrylate; 1,4-dioxane; Propylene oxide

WARNING: This product contains a chemical known to the State of California to cause

cancer and birth defects or other reproductive harm.

Ethylene oxide

Other regulations

Australia inventory (AICS)

Canada inventory

At least one component is not listed.

At least one component is not listed.

China inventory (IECSC)

At least one component is not listed.

Philippines inventory

At least one component is not listed.

At least one component is not listed.

(PICCS)

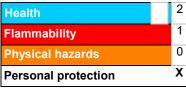
Taiwan inventory (CSNN) Not determined.

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

identified in Section 1.

# **Section 16. Other information**

#### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

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#### Section 16. Other information



#### **History**

Date of issue/Date of

revision

Date of previous issue

Key to abbreviations

03/18/2015.

No previous validation.

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 73/78 = 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.

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

#### Notice to reader

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