



# SAFETY DATA SHEET

Issue Date 4/25/2016

Revision Date 4/25/2016

Version 1

## 1. IDENTIFICATION

### Product identifier

Product Name: Syn-Tack

### Other means of identification

Product code: F-107

Synonyms: None

### Recommended use of the chemical and restrictions on use

Recommended Use: Lubricating Grease

Uses advised against: No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC

PO BOX 1777

LODI, CA 95241

Phone: (800)-807-4496

Fax: (209)-334-6408

### Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

Signal word: None

Symbols/Pictograms: None

### Hazards not otherwise classified (HNOC)

Not applicable.

### Other information

0.39106% of the mixture consists of ingredient(s) of unknown toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	weight-%
Copper	7440-50-8	0.1-1

The exact percentage (concentration) of composition has been withheld as a trade secret.

Ingredient comments: The mineral oils in the product contain <3% DMSO-extract (IP 346).

## 4. FIRST AID MEASURES

### Description of first aid measures

Inhalation: Move to fresh air in case of accidental inhalation of vapors or decomposition products.  
Skin contact: Wash skin with soap and water.

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Ingestion	Do not induce vomiting without medical advice. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

Symptoms	None known.
----------	-------------

**Indication of any immediate medical attention and special treatment needed**

Note to physicians	Treat symptomatically.
--------------------	------------------------

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Suitable extinguishing media	Use CO <sub>2</sub> , dry chemical, or foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture**

Not flammable. Fire may produce irritating and/or toxic gases.

**Hazardous combustion products**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

**Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions	Extremely slippery when spilled. Avoid contact with eyes and skin. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.
For emergency responders	Use personal protection recommended in Section 8.

**Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment as required. Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Advice on safe handling	Extremely slippery when spilled. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or mists.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep at a temperature not exceeding 45°C.
Incompatible materials	None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	TWA: 0.1 mg/m <sup>3</sup> fume TWA: 1 mg/m <sup>3</sup> dust and mist (vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust, fume, mist	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist

Solvent naphtha, petroleum, heavy arom	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m <sup>3</sup>	
--	-------------------------------	--	--

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### Exposure controls

Engineering controls                      Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Hand protection                      Wear protective nitrile rubber gloves. Thickness  $\geq 0.38$  mm - breakthrough time >480 minutes.  
Thickness 0.1 mm - splash protection.

Eye/face Protection                      No special technical protective measures are necessary.

Skin and body protection                      No special technical protective measures are necessary.

Respiratory protection                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations                      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance                      Smooth  
Physical state                      Semi-solid  
Color                      copper  
Odor                      No information available  
Odor threshold                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		Not applicable
Melting point/freezing point		No information available
Boiling point/boiling range		Not applicable
Flash point	> 150 °C / > 302 °F	Based on base oils
Evaporation rate		Not applicable
Flammability (solid, gas)		No information available
Flammability limits in air		No information available
Upper flammability limit		
Lower flammability limit		
Vapor pressure		Not applicable
Vapor Density		Not applicable
Relative density		No information available
Water solubility		No information available
Solubility in other solvents		No information available
Partition coefficient (n-octanol/water)		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available

Dynamic viscosity                      No information available

### Other information

Density                      < 1000 kg/m<sup>3</sup> @ 25 °C / 77 °F

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation	Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
Ingestion	Malaise (vague feeling of discomfort).
Skin contact	May be harmful in contact with skin.
Eye contact	May cause slight irritation.

### Information on toxicological effects

Symptoms	No information available.
----------	---------------------------

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not hazardous based on component data.
Serious eye damage/eye irritation	Not hazardous based on component data.
Sensitization	Not hazardous based on component data.
Germ cell mutagenicity	Not hazardous based on component data.
Carcinogenicity	Not hazardous based on component data.
Reproductive toxicity	Not hazardous based on component data.
STOT-single exposure	Not hazardous based on component data.
STOT-repeated exposure	Not hazardous based on component data.
Aspiration hazard	Not hazardous based on component data.

### Numerical measures of toxicity

Acute toxicity	0.39106% of the mixture consists of ingredient(s) of unknown toxicity.
----------------	--

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	16101 mg/kg
<b>ATEmix (dermal)</b>	9537 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not regarded as dangerous for the environment. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Copper 7440-50-8	0.0426 - 0.0535: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.031 - 0.054: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	0.0068 - 0.0156: 96 h Pimephales promelas mg/L LC50 0.3: 96 h Pimephales promelas mg/L LC50 static 0.2: 96 h Pimephales promelas mg/L LC50 flow-through 0.052: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.25: 96 h Lepomis macrochirus mg/L LC50 static 0.3: 96 h Cyprinus carpio mg/L LC50 semi-static 0.8: 96 h Cyprinus carpio mg/L LC50 static 0.112: 96 h Poecilia reticulata mg/L LC50 flow-through	-	0.03: 48 h Daphnia magna mg/L EC50 Static

<b>Persistence and degradability</b>	Not readily biodegradable.
--------------------------------------	----------------------------

<b>Bioaccumulative potential</b>	Material does not bioaccumulate.
<b>Mobility in soil</b>	After release, adsorbs onto soil.
<b>Results of PBT and vPvB assessment</b>	No information available
<b>Other adverse effects</b>	No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes	Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations.
US EPA waste number	No information available
Other information	Waste codes should be assigned by the user based on the application for which the product was used

Chemical name	California hazardous waste status
Copper 7440-50-8	Toxic

### 14. TRANSPORT INFORMATION

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not applicable
<b>Environmental hazards</b>	None
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available
<b>Special precautions for user</b>	None

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>CWA (Clean Water Act)</b>	This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
------------------------------	---

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	

#### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	-

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

## NZIoC - New Zealand Inventory of Chemicals

**US Federal Regulations**

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard No  
Chronic Health Hazard No  
Fire Hazard No  
Sudden release of pressure hazard No  
Reactive Hazard No

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper (CAS #: 7440-50-8)	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**

## California Proposition 65

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

US State Regulations

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION****HMIS**

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection p

**NFPA**

Health hazards 1

Flammability 1

Instability 0

Special Hazard -

**Issue Date**

4/25/2016

**Revision Date**

4/25/2016

**Revision Note**

Not applicable

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**