



# Syntroil 440 NP (A28465-110)

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name Not applicable  
Trade name Syntroil440-NP (A28465-110)  
CAS No. Mixture  
EINECS No. Mixture

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

Identified use(s) Synthetic Bearing Lubricant  
Uses advised against None.

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

Company Identification Permawick Company  
3110 Permawick Drive  
Colombus, IN, 47201  
Telephone (812) 376-0703  
Fax (812) 372-1410  
E-Mail (competent person) sales@permawick.com

#### Emergency telephone number

Emergency Phone No. Monday - Friday, 8 am – 4:30 p.m. (EST) (812) 376-0703  
CHEMTREC 24 hr. (800) 424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Aquatic Chronic 3

#### Label elements

Hazard Symbol None  
Hazard statement(s) Harmful to aquatic life with long lasting effects.  
Precautionary statement(s) Avoid release to the environment.

#### Other hazards

Additional Information Not classified as PBT or vPvB.  
None known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Polyol Ester

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0 – 1.5	68411-46-1	May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
tris(methylphenyl) phosphate	0 – 1.5	1330-78-5	Suspected of damaging fertility or the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.: None

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Unlikely to be required but if necessary treat symptomatically.
Skin Contact	Wash affected skin with soap and water.
Eye Contact	Eyes should be washed with plenty of water. If symptoms occur obtain medical attention.
Ingestion	Unlikely to be required but if necessary treat symptomatically.
<b>Most important symptoms and effects, both acute and delayed</b>	None
<b>Indication of the immediate medical attention and special treatment needed</b>	None

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.

### Special hazards arising from the substance or mixture

This product may give rise to hazardous fumes in a fire.

### Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid skin contact. Avoid contact with eyes.

### Environmental precautions

Use appropriate container to avoid environmental contamination.

### Methods and material for containment and cleaning up

Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery.

### Reference to other sections

None

### Additional Information

None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Avoid skin contact. Avoid contact with eyes.

### Conditions for safe storage, including any incompatibilities

-Storage Temperature	Store at room temperature.
-Incompatible materials	Strong oxidising agents.

### Specific end use(s)

Lubricating agent

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	----	----	----	----	----	

#### Recommended monitoring method

None

#### Exposure controls

##### Appropriate engineering controls

Not normally required.

#### Personal protection equipment

Eye/face protection

Safety spectacles.



Skin protection (Hand protection/ Other)

Not normally required.



Respiratory protection

Not normally required.



Thermal hazards

Not normally required.

#### Environmental Exposure Controls

Use appropriate container to avoid environmental contamination. Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Granular
Colour	Gray to Gray-Yellow
Odour	Faint Ester-like.
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not determined.
Flash Point (°C)	230 - 270 [Open cup]
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Explosive limit ranges	Not applicable
Vapour Pressure (Pascal)	< 1
Vapour Density (Air=1)	> 1
Density (g/ml) Base Oil	0.993 – 1.01
Solubility (Water)	Insoluble.
Solubility (Other)	Not available



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Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Temperature (°C)	>282
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	73.6 (Listed in: Product specification)
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	None
<b>Incompatible materials</b>	Oxidizers
<b>Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS No. 68411-46-1)

##### **Acute toxicity**

-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	No data
-Dermal	LD50 > 2000 mg/kg (rat)
-Irritation	Slightly irritant (Skin). Non-irritant to rabbit eyes.

##### **Sensitisation**

It is not a skin sensitiser.

##### **Repeated dose toxicity**

No data

##### **Mutagenicity**

Negative

##### **Carcinogenicity**

No data

##### **Toxicity for reproduction**

NOAEL = 125 mg/kg (P/F1) (rat)

##### **Other information**

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

#### tris(methylphenyl) phosphate (CAS No. 1330-78-5)

##### **Acute toxicity**

-Ingestion	LD50 > 20,000 mg/kg (rat)
-Inhalation	LC50 > 11.1 mg/l (rat) (1 hour(s))
-Dermal	LD50 3.7 g/kg (rabbit)
-Irritation	Slightly irritant (Skin). Non-irritant to rabbit eyes.

##### **Sensitisation**

It is not a skin sensitiser.

##### **Repeated dose toxicity**

Oral: NOAEL = 1000 mg/kg (rat)

##### **Mutagenicity**

Negative

##### **Carcinogenicity**

No data

##### **Toxicity for reproduction**

Positive

##### **Developmental Toxicity**

LOAEL = 20 mg/kg (Developmental)

NOEL = 20 mg/kg (Maternal)

##### **Other information**

None known

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

#### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS No. 68411-46-1)

##### **Acute toxicity**

Fish LC50 > 100 mg/l (96 hour) (*D. rerio*)  
Aquatic invertebrates: EC50 > 100 mg/l (48 hour) / (24 hour(s)) (*D. magna*)  
Algae EC50 > 100 mg/l (72 hour) (*D. subspicatus*)



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<b>Long Term</b>	(Growth rate) and (Biomass) No data
<u>tris(methylphenyl) phosphate (CAS No. 1330-78-5)</u>	
<b>Acute toxicity</b>	Fish LC50 = 0.06 mg/l (96 hour) ( <i>Rainbow trout</i> ) Fish LC50 = 44.8 mg/l (96 hour) ( <i>Fathead minnow</i> ) Aquatic invertebrates: EC50 = 146 µg/l (48 hour) ( <i>D. magna</i> ) Algae EL50 > 2500 µg/l (72 hour) / (96 hour) ( <i>S. capricornutum</i> )
<b>Long Term</b>	Fish Sublethal Effects = 0.9 mg/l (4 week(s)) ( <i>O. mykiss</i> ) Aquatic invertebrates: NOEC = 0.011 – 0.019 mg/l (Survival) ( <i>G. pseudolimnaeus</i> )
<b>Persistence and degradability</b>	Not available
<b>Bioaccumulative potential</b>	Not available
<b>Mobility in soil</b>	No data
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>Additional Information</b>	None known.

## SECTION 14: TRANSPORT INFORMATION

<b>DOT (DEPARTMENT OF TRANSPORTATION)</b>	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Marine Pollutant	
Special precautions for user	
UN number	
<b>Land transport (ADR/RID)</b>	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Marine Pollutant	
Special precautions for user	
<b>Sea transport (IMDG)</b>	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Environmental hazards	
Special precautions for user	
<b>Air transport (ICAO/IATA)</b>	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Environmental hazards	
Special precautions for user	



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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not established

## SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories:

Fire    Sudden Release    Reactivity    Immediate (acute)    Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: April 16, 2013

Additional Information: None.

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