

# NanoSyn 251

Issuing Date 31-May-2017 Revision Number 1

## 1 - Product and Company Identification

Product name: NanoSyn 251
Product type/usage/industry: Oil Additive

Manufacturer/Supplier Information: Lubrication Specialties, Inc.

3975 Morrow Meadows Drive Mount Gilead, OH 43338 US Phone: (419) 947-2647

Emergency contact: Company: (419) 564-0525

CHEMTREC (24HR): (800) 424-9300

#### 2 - Hazards Identification

<u>Classification of the substance or mixture:</u> Classification of this substance/mixture is based on

29 CFR 1910.1200/HazCom 2012 (GHS-US)

Not classified

**Labelling:** 

Signal Word: Hazard Symbols:

None None

**Precautionary Statements:** P262: Do not get in eyes, on skin, or on clothing.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do – continue rinsing. P314: Get medical advice/attention if you feel unwell.

**Key to Hazard Categories:** 

1=Severe Hazard 2=Serious Hazard 3=Moderate Hazard 4=Slight Hazard 5=Minimal Hazard

## 3 - Composition/Information on Ingredients

CAS Number Material or component Avg % weight

126-57-8 Trimethylolpropane Tripelargonate 10% Proprietary Proprietary Material 90%

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.



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4 - First Aid Measures

Eyes: Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally.

Get medical attention if irritation develops.

Skin: Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated

clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.

Inhalation: Move the person to fresh air. If breathing becomes difficult, contact a physician.

Ingestion: Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth, give water to drink, and get

medical attention if you feel unwell.

5 - Firefighting Measures

**Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Unsuitable Extinguishing Media:** Water jet.

**Special Protective Equipment for** 

Firefighters:

chemical fire.

In case of fire, containers may explode from internal pressure. Cool with water. **Unusual Fire & Explosion Hazards:** 

May emit toxic fumes of CO and CO<sub>2</sub> under fire conditions.

6 - Accidental Release Measures

Personal precautions: Avoid contact with skin and eyes. Product is slippery. Avoid falls.

Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak.

Self-contained breathing apparatus and protective clothing when fighting any

Ensure adequate ventilation, especially in confined areas.

**Environmental precautions:** P273: Avoid release to the environment

Limit leakage with earth or sand. Do not discharge into the drains/surface

water/groundwater. Dispose of absorbed material in accordance with local, state

and federal regulations.

Methods for Containment/Cleaning Up: Take up with absorbent material (e.g. vermiculite, general purpose binder).

Dispose of absorbed material in accordance with local, state, and federal

regulations.

7 - Handling and Storage

Handling: P261: Avoid breathing mists of product

P262: Do not get in eyes, on skin, or on clothing

P264: Wash thoroughly after handling

P280: Wear protective gloves/eye protection

Storage: P402+404: Store in a dry place. Store in a closed container

P403+233: Store in a well-ventilated place. Keep container tightly closed

Protect from moisture. Do not store together with acids.

None known. **Special Packaging Requirements:** 

Incompatible Materials or Fire/Explosion

Protection:

Strong oxidizers, strong acids.



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#### 8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):

**Hand Protection:** Use impervious gloves.

**Eve Protection:** Wear safety glasses with side shields.

Wear protective clothing. **Skin Protection:** 

Recommended if ventilation is limited. **Respiratory Protection:** 

**Engineering Measures/Controls:** 

Ventilation: Ensure adequate ventilation to maintain product at acceptable airborne levels.

Other measures: Eye-wash station.

**Exposure Limits/Guidelines:** 

CAS# Material **BASIS TYPE VALUE** 

None

## 9 - Physical and Chemical Properties

Clear, colorless to pale yellow Form and Appearance: Odor: liquid

N/D pH: N/A Odor Threshold:

**Boiling Point:** > 572°F (300°C) (lit.) < < -15°F (-26.1°C) (pour pt.) Melting/Freezing point:

0.16 mmHg @ 20°C N/D **Vapor Pressure:** Vapor Density (Air=1): ~482°F (250°C) (COC) < 0.01 Flash Point: **Evaporation Rate:** UEL: N/A LEL: N/A

10 cst @ 100°C Viscosity: Solubility in Water: Insoluble

Octanol/Water Partition Specific Gravity/ > 2.8 @ 23°C 0.90 @ 25°C Coefficient:

**Bulk Density:** Decomposition **Auto-ignition temperature:** N/D N/D Temperature:

Volatile content: < 0.1% **VOC Data:** N/D

## 10 - Stability and Reactivity

**Chemical Stability:** Product is stable under ordinary conditions of use and storage.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Exposure to moist air or water, extreme heat, sources of ignition.

**Incompatible Materials:** Strong oxidizers, strong acids.

**Hazardous Decomposition Products:** Extremely high temperatures and thermal decomposition may produce CO<sub>x</sub>.



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## 11 - Toxicological Information

**Acute Data:** 

Principle Routes of Exposure: Eye contact, skin contact, ingestion, inhalation (mist).

**Acute Toxicity** 

 Route of exposure:
 Test type:
 Species:
 Results:
 Comments:

 Oral
 LD50
 Rat
 >2000 mg/kg

**Irritation and Corrosion** 

 Target organ:
 Species:
 Results:
 Comments:

 Eyes
 Rabbit
 Non-irritating

 Skin
 Rabbit
 Non-irritating

**Sensitization** 

Target organ:Species:Results:Comments:SkinHumanNot sensitizing-

Specific Target Organ Toxicity - Single Exposure

Target organ: Species: Results: Comments:

None -

Chronic Data:

Carcinogenicity

 IARC
 NTP
 ACGIH
 OSHA

 No
 No
 No
 No

Mutagenicity: No effects observed.

Reproductive Effects: No effects observed.

Target Organ Effects: NDA



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12 - Ecological Information

**Acute Aquatic Toxicity** 

Species: Test type: Exposure time: Results: Comments:

Fish LC50 96h >100 mg/l No toxicity reported for any

organisms at water solubility

limit.

**Environmental Fate** 

**Persistence/Degradability:** Product is inherently biodegradable.

Low.

Elimination: 43 - 54% in 28d

COD/BOD5: NDA

**Bioaccumulation Potential:** 

Mobility in Soil: Moderate due to low water solubility and low vapor pressure.

Other Adverse Effects: NDA

13 - Disposal Considerations

**Product:** Dispose of absorbed material/content and/or container in accordance with local,

state, federal and/or international regulations.

Packaging: NDA



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## 14 - Transport Regulations

#### **US DOT Regulations (Land Transport):**

Proper Shipping Name: Not regulated.

Hazard Class: Not regulated.

UN Number: Not regulated.

Packing Group: Not regulated.

Label Required: Not regulated.

Other Information: Not regulated.

#### IATA/ICAO Regulations (Air Transport):

Proper Shipping Name:
Not regulated.
Hazard Class:
Not regulated.
UN Number:
Not regulated.
Packing Group:
Not regulated.
Not regulated.
Vot regulated.
Not regulated.
Not regulated.
Not regulated.
Not regulated.

### IMDG/IMO Regulations (Maritime Transport):

**Proper Shipping Name:** Not regulated. **Hazard Class:** Not regulated. **UN Number:** Not regulated. **Packing Group:** Not regulated. **Label Required:** Not regulated. **EMS Number:** Not regulated. **Segregation Groups:** Not regulated. Marine Pollutant (Y/N): Not regulated. Other Information: Not regulated.



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15 - Regulatory Information

**Domestic Regulations** 

Components requiring notification

SARA 302 (TPQ) SARA 304 (RQ) SARA 313 CERCLA (RQ) CAA 112(b) HAPS CAA 112(r)

None None None None None None

SARA 311/312 Hazard Categorization: None

**State Information** 

California Proposition 65: May contain traces (< 100 ppm) of the following components known to the State of

California to cause cancer, birth defects, or other reproductive harm.

None.

State Right to Know/ Hazardous Substance List Information: The following chemicals are present on one or more Right to Know/Hazardous

Substance Lists for the states of MA, MN, NJ, PA and RI.

None.

This is not an exhaustive list. For information on listings in other states, please consult that

state's RTK/HSL.

#### **Chemical Inventories**

United States (TSCA)	EUROPE (EINECS/ ELINCS/ NLP)	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/	China (IECSC)	New Zealand
				DSL	NDSL		ISHL)		(NZIoC)
Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

#### 16 - Additional Information

### **Key to Abbreviations:**

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

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