



**SAFETY DATA SHEET**  
According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

### 1. IDENTIFICATION

#### Product identifier

**Product name** SYNOLAN 1000 ISO 220

#### Other means of identification

**Product Code(s)** 083422

**Number** 7TO

**Substance/mixture** Mixture

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

**Identified uses** Lubricant.

**Uses advised against** Do not use for any purpose other than the one for which it is intended

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

**Supplier Address** TOTAL Specialties USA Inc  
1201 Louisiana Street, Suite 1800  
Houston, TX 77002  
Phone: +1 800 323 3198

**Contact Point** Technical/ HSEQ

**E-mail Address** USRMLIN-info@total.com

#### Emergency telephone number

**Company Phone Number** +1 (908) 862-9300  
**Emergency telephone** CHEMTREC: +1 800 424 9300 (24h)

### 2. HAZARDS IDENTIFICATION

#### Classification

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

#### Label elements

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

Version GNAM



SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

### Unknown Acute Toxicity

2.07% of the mixture consists of ingredient(s) of unknown toxicity

### Hazards not otherwise classified (HNOC)

None known

### Other information

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## 4. FIRST AID MEASURES

### First aid measures for different exposure routes

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	If symptoms persist, call a physician. Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

<b>Skin contact</b>	Not classified. Avoid contact with skin. Substance may cause slight skin irritation.
<b>Eye contact</b>	Not classified. Avoid contact with eyes. May cause slight irritation.
<b>Inhalation</b>	Not classified. Avoid breathing vapors or mists.

Version GNAM



SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>	
<b>Notes to physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b><u>Suitable Extinguishing Media</u></b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	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.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	None.
<b><u>Sensitivity to Static Discharge</u></b>	None.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

### 6. ACCIDENTAL RELEASE MEASURES

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

<b>General Information</b>	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
<b>Other information</b>	See Section 12 for additional information.

#### **Environmental precautions**

<b>General Information</b>	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
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#### **Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
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### 7. HANDLING AND STORAGE

Version GNAM



SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

### Precautions for safe handling

#### **Advice on safe handling**

When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

#### **Prevention of fire and explosion**

Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

#### **Hygiene measures**

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product.

### Conditions for safe storage, including any incompatibilities

#### **Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

#### **Materials to Avoid**

Strong oxidizing agents.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control parameters

#### **Exposure limits**

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).

### Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

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

#### **General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

#### **Eye/Face Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

#### **Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Version GNAM



SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

### Hand Protection

Protective gloves. Rubber gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

### Respiratory protection

None required under normal usage. 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.

### Hygiene measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Color		amber	
Physical State @20°C		liquid	
Odor		Slight sulphurous	
Odor Threshold		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		Not applicable	
Flash point	> 232 °C		ASTM D 92 Cleveland Open Cup (COC)
	> 450 °F		ASTM D 92. Cleveland Open Cup (COC).
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	< 0.9		ASTM D 1298
Density	< 900 kg/m <sup>3</sup>		ASTM D 1298
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	

Version GNAM



SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	~233 mm <sup>2</sup> /s	@ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	Not applicable		
<b>Other information</b>			
<b>Specific Gravity</b>	< 0.9		ASTM D 1298
<b>Freezing Point</b>		No information available	

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<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, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

<b>Principle Routes of Exposure</b>	Inhalation, Ingestion, Eye contact, Skin contact.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Skin contact</b>	Not classified. Avoid contact with skin. Substance may cause slight skin irritation.
<b>Eye contact</b>	Not classified. Avoid contact with eyes. May cause slight irritation.
<b>Inhalation</b>	Not classified. Avoid breathing vapors or mists.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

##### Acute toxicity - Product Information

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Version GNAM



SDS # : 083422

**SYNOLAN 1000 ISO 220**

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

<b>Oral</b>	
ATEmix (oral)	7858 mg/kg
<b>Dermal</b>	
ATEmix (dermal)	5174 mg/kg
<b>Inhalation</b>	
ATEmix (inhalation-dust/mist)	30.3 mg/l
ATEmix (inhalation-vapor)	25914 mg/l

**Acute toxicity - Component Information**

**Sensitization** No sensitization responses were observed.  
**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Mutagenicity** Contains no ingredient listed as a mutagen.  
**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.  
**STOT-single exposure** None under normal use conditions.  
**STOT - repeated exposure** None under normal use conditions.  
**Aspiration Hazard** Not applicable.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

No experimental data available

**Acute aquatic toxicity - Component Information**

No information available

**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**

No information available

**Effects on terrestrial organisms** No experimental data available .

**Persistence and degradability**

Version GNAM



SDS # : 083422

**SYNOLAN 1000 ISO 220**

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

**General Information** No information available.

**Bioaccumulative potential**

**Product Information** No information available.

**logPow** No information available

**Component Information** No information available.

**Mobility**

**Soil** No information available

**Water** The product is insoluble and floats on water

**Other adverse effects**

**General Information** No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment**

**Waste Disposal Methods** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not re-use empty containers. Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO/IATA** Not regulated

**IMDG/IMO** Not regulated

**ADR/RID** Not regulated

**ADN** Not regulated

Version GNAM





SDS # : 083422

## SYNOLAN 1000 ISO 220

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

### 15. REGULATORY INFORMATION

#### International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:

U.S.A. (TSCA)  
Europe (EINECS/ELINCS/NLP)

#### U.S. 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

##### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

##### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### U.S. State Regulations

##### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

No information available

Version GNAM



SDS # : 083422

**SYNOLAN 1000 ISO 220**

Date of the previous version: 2015-10-13

Revision Date: 2015-10-13

Version 1.01

EPA Pesticide Registration Number Not Applicable**16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard 1	Flammability 1	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal protection b

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

<b>Revision Date:</b>	2015-10-13
<b>Revision Note</b>	*** Indicates updated section
<b>Abbreviations, acronyms</b>	ACGIH = American Conference of Governmental Industrial Hygienists bw = body weight bw/day = body weight/day EC x = Effect Concentration associated with x% response GLP = Good Laboratory Practice IARC = International Agency for Research of Cancer LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading NIOSH = National Institute of Occupational Safety and Health NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level OECD = Organization for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

<b>Legend</b>	Section 8 ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH - National Institute for Occupational Safety and Health TLV - Threshold Limit Values PEL - Permissible Exposure Limits IDLH - Immediately Dangerous to Life or Health concentrations TWA - Time Weight Average STEL - Short Term Exposure Limits S* - Skin notation TSCA - Toxic Substance Control Act
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Version GNAM



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**SDS # :** 083422

## **SYNOLAN 1000 ISO 220**

**Date of the previous version:** 2015-10-13**Revision Date:** 2015-10-13**Version** 1.01

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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

Version GNAM