

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SYNOLAN 1000 ISO 46

Date of the previous version: 2015-07-06 Revision Date: 2015-10-13 Version 2.01

1. IDENTIFICATION

**Product identifier** 

Product name SYNOLAN 1000 ISO 46

Other means of identification

Product Code(s) 083425

Number RQ6 Substance/mixture RQ6 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)



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**Unknown Acute Toxicity**No information available

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

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

Chemical Name	CAS-No	Weight %
1,2-Benzenedicarboxylic acid, di-C9-11-branched	68515-49-1	10-30
alkyl esters, C10-rich		

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

## 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Rinse immediately with plenty of water and seek medical advice.

**Skin contact** Remove contaminated clothing and shoes. Wash off with soap and water. In the case of

skin irritation or allergic reactions see a physician. Wash contaminated clothing before

reuse.

**Inhalation** If symptoms persist, call a physician. Move to fresh air. Inhalation of high concentrations of

vapor or aerosols may cause irritation of the upper respiratory tract. If breathing is difficult,

give oxygen.

Ingestion Never give anything by mouth to an unconscious person. Call a physician or Poison Control

Center immediately. If swallowed, do not induce vomiting - seek medical advice. Drink 1 or

2 glasses of water.

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

**Skin contact** Not classified. Avoid contact with skin. May cause slight irritation.



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Eye contact Not classified. Avoid contact with eyes. May cause slight irritation.

Inhalation Not classified. Avoid breathing vapors or mists. Inhalation of vapors in high concentration

may cause irritation of respiratory system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO2). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Special Hazard 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.

**Explosion Data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None. None.

Protective Equipment and Precautions for Firefighters

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

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery.

**Other information** See Section 12 for additional information.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Local authorities should be

advised if significant spillages cannot be contained. Try to prevent the material from

entering drains or water courses.

Methods and materials for containment and cleaning up



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Methods for cleaning up

Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. 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). Use mechanical means such as pumps, skimmers and absorbent materials.

### 7. HANDLING AND STORAGE

#### 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

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. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. When using, do not eat, drink or smoke. Use personal protective equipment as required.

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

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. 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. Keep in a bunded area. Keep in properly labeled containers.

containers.

Materials to Avoid Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH

(TLV) TWA 5 mg/m³ (highly refined).



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**Exposure controls** 

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Apply technical measures to

comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the

recommended equipment.

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.

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Skin and body protection

**Hand Protection** Protective gloves. Impervious 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.

None required under normal usage. If exposure limits are exceeded or irritation is Respiratory protection

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.

Wash hands before breaks and immediately after handling the product. Do not eat, drink or Hygiene measures

> 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. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. When using, do not eat, drink or smoke.

Use personal protective equipment as required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

limpid **Appearance** Color clear Physical State @20°C liquid

Mild Petroleum distillates Odor

**Odor Threshold** No information available

**Property** Values Remarks Method

Not applicable



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Melting point/range No information available

Boiling point/boiling range > 315 °C > 600 °F

277 °C ASTM D 92 Flash point

530 °F **Evaporation rate** 

ASTM D 92. No information available

No information available

Flammability Limits in Air

No information available upper No information available Lower No information available No information available **Vapor Pressure** 

Vapor density No information available

< 0.9 @ 15 °C **ASTM D 1298** Relative density **Density** @ 15 °C  $< 900 \text{ kg/m}^3$ **ASTM D 1298** 

Not applicable Water solubility

Solubility in other solvents No information available **loaPow** No information available

**Autoignition temperature** Not applicable

**Decomposition temperature** No information available Viscosity, kinematic @ 40 °C 43.2 mm2/s

**Explosive properties** Not explosive **Oxidizing Properties** Not applicable Not applicable Possibility of hazardous reactions

Other information

@ 15 °C **Specific Gravity** < 0.9 **ASTM D 1298** 

**Freezing Point** 

- 57 °C ASTM D 97 Pour point

#### 10. STABILITY AND REACTIVITY

No information available. Reactivity

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to Avoid** Heat, flames and sparks. Take precautionary measures against static discharges. Heat

(temperatures above flash point), sparks, ignition points, flames, static electricity. Strong

ASTM D 445

oxidizing agents.

Strong oxidizing agents. **Incompatible Materials** 

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**



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

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

Numerical measures of toxicity Product Information

ATEmix (oral) 5916 mg/kg
ATEmix (dermal) 5847 mg/kg
ATEmix (inhalation-dust/mist) 1413 mg/l
ATEmix (inhalation-vapor) 79279 mg/l

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	LD50 > 60000 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit)	
68515-49-1			

## Information on toxicological effects

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Skin contact** Not classified. Avoid contact with skin. May cause slight irritation.

Eye contact Not classified. Avoid contact with eyes. May cause slight irritation.

**Inhalation** Not classified. Avoid breathing vapors or mists. Inhalation of vapors in high concentration

may cause irritation of respiratory system.

Ingestion 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

**Sensitization Carcinogenicity**No sensitization responses were observed.

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**



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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

**General Information** No information available.

**Bioaccumulative potential** 

Product Information No information available.

logPow No information available

Component Information

Component information :		
Chemical Name	log Pow	
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	8.8	
68515-49-1		

## **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.



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**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

## 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)

Canada (DSL/NDSL) Korea (KECL) Philippines (PICCS) Australia (AICS) China (IECSC)

### 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



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#### **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 contains the following Proposition 65 chemicals:\*\*\*

Chemical Name	Weight %	California Prop. 65
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl	10-30	Developmental
esters, C10-rich - 68515-49-1		

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

No information available

#### EPA Pesticide Registration Number Not Applicable

## 16. OTHER INFORMATION

NFPA Health Hazard 1 Flammability 1 Instability 0 Physical and chemical

hazards -

HMIS 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

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Revision Note \*\*\* Indicates updated section

Abbreviations, acronyms



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Legend 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

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

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