



# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Company name: CRC Industries Trading (Shanghai) Co., Ltd. Product name: Syntho-Tech Lubricant with PTFE

Issue date: 03-31-2017

Version #: 01

SDS No: -

## 1. Chemical product and company identification

<b>Product name</b>	<b>Syntha-Tech Lubricant with PTFE</b>
<b>Product code</b>	PR03054
<b>Company name</b>	CRC Industries Trading (Shanghai) Co., Ltd.
<b>Address</b>	Room 2408, No. 488 South Wuning Road Jingan District - 200042 Shanghai, PR China
<b>General Information</b>	+86 (0) 21 6236 6035
<b>24-Hour Emergency</b>	+86 532 83889090
<b>Website</b>	www.crcindustries.cn

### Recommended use and Limitations on use

<b>Recommended use</b>	Synthetic general purpose lubricant
<b>Issue date</b>	03-31-2017

## 2. Hazards identification

### Emergency overview

Aerosol. CONTENTS UNDER PRESSURE.  
Pressurized container may rupture when exposed to heat or flame. May be fatal if swallowed and enters airways. Harmful if inhaled. May be harmful in contact with skin. Dangerous for the environment if discharged into watercourses.

### GHS-classification

<b>Physical hazards</b>	Aerosols	Category 2
<b>Health hazards</b>	Acute toxicity, dermal	Category 5
	Acute toxicity, inhalation	Category 4
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3
<b>Other hazards which do not result in classification</b>	Not classified.	

### Label elements

#### Pictograms



### GHS-labeling

#### Signal word

Danger

#### Hazard statement

Flammable aerosol. Pressurized container: May burst if heated. May be fatal if swallowed and enters airways. May be harmful in contact with skin. Harmful if inhaled. Harmful to aquatic life.

#### Precautionary statement

##### Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

##### Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

##### Storage

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

##### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Physical and chemical hazards

Flammable aerosol. The product is stable and non-reactive under normal conditions of use, storage and transport.

**Health hazards** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Harmful if inhaled. May be harmful in contact with skin. Direct contact with eyes may cause temporary irritation.

**Environmental hazards** Harmful to aquatic life.

**Supplemental information**

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

**3. Composition/information on ingredients**

Substance/mixture	Mixture	Concentration (%)	CAS Number
1-decene, dimer, hydrogenated		60 - 70	68649-11-6
acetone		3 - 5	67-64-1
carbon dioxide		1 - 3	124-38-9
polytetrafluoroethylene		< 1	9002-84-0

**4. First aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact** Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms and health effects** Aspiration may cause pulmonary edema and pneumonitis.

**Expected acute symptoms and delayed symptoms** Aspiration may cause pulmonary edema and pneumonitis.

**Personal protection for first-aid responders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**Notes to physician** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**5. Fire-fighting measures**

**Extinguishing media** Water.

**Extinguishing media to avoid** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards** Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

**Protection of fire-fighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**General fire hazards** Flammable aerosol.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

**6. Accidental release measures**

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

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Clean-up methods and materials and containment measures**

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Prevention of secondary hazards**

Not available.

**7. Handling and storage**

**Handling**

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

**Storage**

Level 2 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection**

**Exposure limits**

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Components	Type	Value
acetone (CAS 67-64-1)	PC-STEL	450 mg/m3
	PC-TWA	300 mg/m3
carbon dioxide (CAS 124-38-9)	PC-STEL	18000 mg/m3
	PC-TWA	9000 mg/m3

**Biological limit values**

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

**Control parameters**

Follow standard monitoring procedures.

**Engineering measures**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

**Personal protective equipment**

**Respiratory protection**

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

**Hand protection**

Wear protective gloves such as: Viton/butyl.

**Eye protection**

Wear safety glasses with side shields (or goggles).

**Skin and body protection**

Wear appropriate chemical resistant clothing.

**Hygiene measures**

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Color</b>	White.
<b>Odor</b>	Mild solvent.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-138.5 °F (-94.7 °C) estimated
<b>Boiling point, initial boiling point, and boiling range</b>	132.9 °F (56.1 °C) estimated
<b>Flash point</b>	253 °F (122.8 °C) Tag Closed Cup
<b>Flammability limit - lower (%)</b>	2.6 % estimated
<b>Flammability limit - upper (%)</b>	12.8 % estimated
<b>Explosive limit - lower (%)</b>	2.6 % estimated
<b>Explosive limit - upper (%)</b>	12.8 % estimated
<b>Vapor pressure</b>	1103.3 hPa estimated
<b>Vapor density</b>	9 (air = 1)
<b>Relative density</b>	0.82 estimated
<b>Density</b>	6.87 lbs/gal estimated
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	615.2 °F (324 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Evaporation rate</b>	Slow.
<b>Flammability (solid, gas)</b>	Not available.
<b>Other data</b>	
<b>Percent volatile</b>	97.1 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hydrogen fluoride. Carbonyl fluoride. Carbon oxides.

## 11. Toxicological information

<b>Acute toxicity</b>	May be fatal if swallowed and enters airways. Harmful if inhaled. May be harmful in contact with skin.
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Components	Species	Test Results
1-decene, dimer, hydrogenated (CAS 68649-11-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	1170 mg/m <sup>3</sup> , 4 hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg

Components	Species	Test Results
acetone (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20000 mg/kg
<b>Inhalation</b>		
LC50	Rat	16000 ppm, 4 hours
<b>Oral</b>		
LD50	Rat	5800 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact.
<b>Symptoms</b>	Aspiration may cause pulmonary edema and pneumonitis.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

polytetrafluoroethylene (CAS 9002-84-0) 3 Not classifiable as to carcinogenicity to humans.

<b>Toxic to reproduction</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity following single exposure</b>	Not classified.
<b>Specific target organ toxicity following repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

**12. Ecological information**

**Ecotoxicological data**

Components	Species	Test Results
1-decene, dimer, hydrogenated (CAS 68649-11-6)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea (Daphnia magna) > 1000 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) > 1000 mg/l, 96 hours
acetone (CAS 67-64-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Harmful to aquatic life.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulation</b>	
<b>Bioaccumulative potential</b>	
<b>Octanol/water partition coefficient log Kow</b>	
acetone	-0.24
<b>Mobility in soil</b>	No data available for this product.
<b>Other hazardous effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

<b>Residual waste</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Local disposal regulations</b>	Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

### 14. Transport information

**CNDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**IATA**

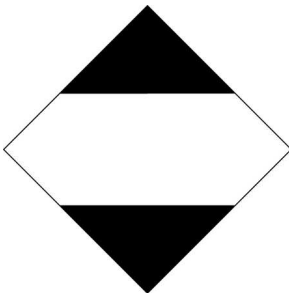
<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**CNDG; IMDG**



IATA



**15. Regulatory information**

**Inventory of Existing Chemical Substances in China**

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Applicable regulations** This safety data sheet conforms to the following laws, regulations and standards:  
 Regulations on the Control over Safety of Dangerous Chemicals  
 Regulations on Labor Protection in Workplaces Where Toxic Products Are Used  
 Measures for the Safe Use of Chemicals in Workplaces  
 Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)  
 General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009 )  
 Packing Symbol of Dangerous Goods(GB190-2009)  
 Packing - Pictorial Marking for Handling of Goods (GB/T191-2009)

**General Rule For Classification and Hazard Communication of Chemicals (GB 13690-2009) and Catalog of Hazardous Chemicals**

- acetone (CAS 67-64-1)
- carbon dioxide (CAS 124-38-9)

**Occupational exposure limits for hazardous agents in the workplace (GBZ 2.1-2007)**

- acetone (CAS 67-64-1)
- carbon dioxide (CAS 124-38-9)

**Restricted Import/Export Toxic Chemical List (MEP and GCA Announcement No. 2008-66, Dec. 1, 2008, amended through MEP and Customs Notice No. 2013-85, December 30, 2013)**

Not regulated.

**Identification of Major Hazard Installations for Hazardous Chemicals (GB18218-2009)**

- acetone (CAS 67-64-1)

**Classification and code of dangerous goods (GB 6944-2012)**

Regulated.

**List of Dangerous Goods (GB 12268-2005)**

Regulated.

**The Principle of Classification of Transport Packaging Groups of Dangerous Goods (GB/T15098-2008)**

Regulated.

**General Specifications for Transport Packages of Dangerous Goods (GB 12463-2009)**

Regulated.

**Regulations on Road Transport of Dangerous Goods**

Regulated.

**Regulations on Rail Road Transport of Dangerous Goods**

Regulated.

**UN Recommendations on the Transport of Dangerous Goods (UN RTDG)**

Regulated.

**16. Other information**

References	Not available.
Further information	CRC # 847A

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