

# SAFETY DATA SHEET

# Sta-Sol® TPM

Version 1.3 Revision Date 05/31/2018

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Sta-Sol® TPM CAS Number: 25498-49-1

Chemical characterization : Propylene Glycol Ethers

Chemical Name : (2-(2-Methoxy methyl ethoxy)Methylethoxy) Propanol Synonyms : Propanol,(2(2-Methoxymethylethoxy)Methylethoxy),

Tripropylene Glycol Methyl Ether

Identified uses : Solvent

Company : J R Hess Company, Inc.

400 Station Street Cranston, RI 02910

Telephone / EmAIL 877-785-2271 / custserv@jrhess.com

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24 hour emergency telephone, call CHEMTREC at

1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887

(elsewhere).

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Specific target organ systemic toxicity - single exposure Category 3

GHS Classification Scale (1= severe hazard; 4= slight hazard)

### **Label elements**

Hazard symbols



Signal Word : Warning

**Hazard Statements**: H336 May cause drowsiness or dizziness.

Precautionary : Prevention

Statements P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P271 Use only outdoors or in a well-ventilated area.

Response

P312 Call a POISON CENTER or doctor/ physician if you

feel unwell.

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### Storage

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

#### Other hazards

Hazards Not Otherwise Classified (HNOC)

May cause dermatitis by defatting the skin from prolonged or repeated contact.

### 3. Composition/information on ingredients

#### **Substances**

#### Ingredients

Chemical Name	CAS-No.	Weight %	Component
	EC-No.		Туре
Tripropylene Glycol Monomethyl	25498-49-1	> 99.0 %	Α
Ether			

Key:

(A) Substance

### **SECTION 4. FIRST AID MEASURES**

First aid r	procedures
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General advice : Take proper precautions to ensure your own health and safety

before attempting rescue and providing first aid.

Consult a physician/doctor if necessary.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : If overcome by exposure, remove victim to fresh air

immediately.

Give oxygen or artificial respiration as needed.

Obtain emergency medical attention.

Prompt action is essential.

In case of skin contact : Remove contaminated clothing as needed.

Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes.

If sticky, use waterless cleaner first.

Seek medical attention if ill effect or irritation develops.

In case of eye contact : Thoroughly flush the eyes with large amounts of clean low-

pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical

attention.

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If swallowed : This material may be a slight health hazard if ingested in large

quantities.

If large quantity swallowed, give lukewarm water (pint/ 1/2

litre) if victim completely conscious/alert.

Do not induce vomiting. Risk of damage to lungs exceeds

poisoning risk.

Obtain emergency medical attention.

Notes to physician

Symptoms : Inhalation may cause CNS depression.

Hazards : May cause drowsiness or dizziness.

Treatment : Treat symptomatically.

Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Flammable properties

Flash point :  $255 \,^{\circ}\text{F} \, (124 \,^{\circ}\text{C})$ 

at 1,013 hPa (760 mm Hg)

Method: PMCC

Autoignition temperature : 531 °F (277 °C)

at 1,013 hPa (760 mm Hg)

Lower explosion limit : No Data Available.

Upper explosion limit : No Data Available.

Fire fighting

Suitable extinguishing media : SMALL FIRE: Use dry chemical, CO2, water spray or regular

foam

LARGE FIRE: Use water spray, water fog or foam. DO NOT

use straight streams

Protective equipment and precautions for firefighters

Specific hazards during fire

fighting

: Heat from fire can generate flammable vapor.

When mixed with air and exposed to ignition source, vapors

can burn in open or explode if confined.

Vapors may be heavier than air.

May travel long distances along the ground before igniting and

flashing back to vapor source.

Fine sprays/mists may be combustible at temperatures below

normal flash point.

Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries.

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Cool containers with flooding quantities of water until well after fire is out.

Withdraw immediately in case of rising sound from venting

safety devices or discoloration of tank.

Always stay away from tanks engulfed in fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire

burn.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters

: Wear positive pressure self-contained breathing apparatus

(SCBA).

Structural firefighter's protective clothing will only provide

limited protection.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Clean-up to be performed only by trained and properly

equipped personnel.

Environmental precautions : An authoritative evaluation of environmental exposure and risk

indicates that no special risk management practices are

needed to control environmental release.

Methods for containment / Methods for cleaning up

Eliminate all sources of ignition.

All equipment used when handling this product must be

grounded.

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

Prevent entry into waterways, sewers, basements or confined

areas.

A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

Use clean non-sparking tools to collect absorbed material.

### **SECTION 7. HANDLING AND STORAGE**

### Handling

Advice on safe handling : Keep container tightly closed when not in use.

The potential for peroxide formation is enhanced when this

solvent is used in processes such as distillation.

Use only non-sparking tools.

Properly ground containers before beginning transfer.

Handle empty containers with care.

Flammable/combustible residue remains after emptying. The purging of all empty shipping containers, regardless of the

flashpoint, is recommended when received with air

atmospheres.

Isolate, vent, drain, wash and purge systems or equipment

before maintenance or repair.

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Use adequate personal protective equipment.

Observe precautions pertaining to confined space entry.

### Storage

Requirements for storage areas and containers

: Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents. Store in properly lined steel/stainless steel to avoid slight

discoloration from mild steel/copper.

Storage under nitrogen atmosphere is recommended to minimize possible formation of highly reactive peroxides.

Aluminum (5000 series alloys - U.S. Aluminum Association Standard) showed no corrosion after 30 days contact with PM

Acetate, DPM, TPM, PTB, or PM at 71°C (160°F).

Some plastics/rubbers are attacked by Glycol Ethers/Ether

Esters.

This product will absorb water if exposed to air.

## 8. Exposure controls/personal protection

### **Control parameters**

### Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

### **Exposure controls**

### **Engineering measures**

Local exhaust in addition to general room ventilation may be required to meet exposure limit(s).

### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

If exposure can exceed the occupational exposure limit(s),

use approved respiratory protection equipment.

Hand protection : Wear chemical resistant gloves such as:

Neoprene.

Eve and face protection : Eve protection such as chemical splash goggles and/or face

shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or

vapor.

Skin and body protection : Depending on the conditions of use, protective gloves, apron,

boots, head and face protection should be worn. Use PPE that is chemical resistant to the product and

prevents skin contact.

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Hygiene measures : Selection of appropriate personal protective equipment should

be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered

during use.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet

facilities.

Take off contaminated clothing and wash before reuse. Shower after work using plenty of soap and water.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** 

Physical state : liquid

Color : Colorless.

Odor : Ether-like odor.

Safety data

Flash point : 255 °F (124 °C)

at 1,013 hPa (760 mm Hg)

Method: PMCC

Lower explosion limit : No Data Available.

Upper explosion limit : No Data Available.

Flammability (solid, gas) : Not applicable

Oxidizing properties : Not considered an oxidizing agent.

Autoignition temperature : 531 °F (277 °C)

at 1,013 hPa (760 mm Hg)

Molecular weight : 206.28 g/mol

Decomposition temperature : not determined

pH : Not applicable.

Melting point/freezing point : -108.0 °F (-77.8 °C)

at 1,013 hPa (760 mm Hg)

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Boiling point/boiling range : 469.13 °F (242.85 °C)

at 1,013 hPa (760 mm Hg)

Vapor pressure : 0.017 hPa (0.013 mm Hg)

at 68 °F (20 °C)

Density : 0.965 g/cm3

at 68 °F (20 °C)

Water solubility : Miscible

Partition coefficient: n-

octanol/water

: log Pow: 0.31

at 68 °F (20 °C)

Viscosity, kinematic : 5.53 mm2/s

at 77 °F (25 °C)

(static)

Relative vapor density : ~7.1

at 59 - 90 °F (15 - 32 °C)

(Air = 1.0)

Surface tension : 68.8 mN/m

1,000mg/l at 68 °F (20 °C)

Evaporation rate : <1

(butyl acetate = 1)

Explosive properties : Not explosive

Remarks - Other information : Hygroscopic., Volatile Characteristics:, Negligible: <0.1%

Additional properties may be listed in Sections 2 and 5.

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Will not occur.

Chemical stability : Stable under recommended storage conditions.

Conditions to avoid : Extended contact with air or oxygen.

The potential for peroxide formation is enhanced when this

solvent is used in processes such as distillation.

Heat, sparks, open flame, other ignition sources, and oxidizing

conditions.

Ignition may occur at temperatures below those published in

the literature as autoignition or ignition temperatures.

Materials to avoid : Strong oxidizing agents.

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Moisture and humidity.

May react with oxygen to form peroxides.

However, there is no known evidence that it has nearly the peroxide forming potential as, for example, diethyl ether, etc.

Hazardous decomposition

products

: Not expected to decompose under normal conditions.

Thermal decomposition : Incomplete combustion will form carbon monoxide and other

toxic vapors.

Hazardous reactions : Not expected to occur.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Product Summary : The below given information is based on the assessment of

the product including impurities.

**Acute toxicity** 

Acute oral toxicity : Based on acute toxicity values, not classified.

Ingestion of very large amounts may cause CNS depression,

respiratory failure, and death in cases of severe over-

exposure.

: LD50: 3,400 mg/kg

Species: Rat

Acute inhalation toxicity : Based on acute toxicity values, not classified.

: LC0: > 30 ppm

Exposure time: 8 HOURS

Species: Rat

**Acute dermal toxicity** : Based on acute toxicity values, not classified.

: LD50: 15,400 mg/kg

Species: Rabbit

**Skin corrosion/irritation** : Based on skin irritation values, not classified.

Serious eye damage/eye

irritation

: Based on eye irritation values, not classified.

May cause slight transient eye irritation.

Respiratory or skin

sensitization

: Respiratory sensitization

Not classified No study available.

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: Skin sensitization Not classified

No adverse effect observed.

**Chronic toxicity** 

Carcinogenicity : Not classified

No adverse effect observed.

Germ cell mutagenicity : Not classified

No adverse effect observed.

Reproductive toxicity

Effects on fertility / : Not classified

Effects on or via lactation 
No adverse effect observed.

Effects on Development : Not classified

No adverse effect observed.

Target Organ Systemic Toxicant - Single exposure

: Classified, May cause drowsiness or dizziness.

: Routes of exposure: Ingestion

Target Organ Systemic

Toxicant - Repeated

exposure

: Based on repeated exposure toxicity values, not classified.

**Aspiration hazard** : Based on physico-chemical values or lack of human evidence,

not classified.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute

toxicity.

Toxicity to fish

Acute toxicity to fish is low.

**Toxicity to daphnia and** : Acute toxicity to freshwater and marine invertebrates is very

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other aquatic invertebrates low.

**Toxicity to algae** : Acute toxicity to aquatic plants very low.

**Toxicity to bacteria** : Low toxicity to sewage microbes.

Toxicity to fish (Chronic

toxicity)

: no data available

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: no data available

Persistence and degradability

Biodegradability : 60 %

Rapidly degradable.

(After 22 days in a ready biodegradability test)

**Bioaccumulative potential** 

**Bioaccumulation** : Bioconcentration factor (BCF): 3.16

Method: (QSAR calculated value)

This material is not expected to bioaccumulate.

Mobility in soil

Surface tension : 68.8 mN/m

1,000mg/l at 20 °C

Distribution among environmental compartments

: Stability in water no data available

: Stability in soil no data available

Low absorption to soil particulates predicted

Additional advice Environmental fate and

pathways

: No additional information available.

# Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

Additional ecological

information

: No additional information available.

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Further information : Do not dump into any sewers, on the ground, or into any body

of water

Any disposal practice must be in compliance with all Federal,

State/Provincial and local laws and regulations Regulations may vary in different locations

#### **SECTION 14. TRANSPORT INFORMATION**

Not regulated for transport

#### **SECTION 15. REGULATORY INFORMATION**

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

#### **SARA 302/304**

This product contains no known chemicals regulated under SARA 302/304.

### **SARA 313**

This product contains no known chemicals regulated under SARA 313.

# **State Reporting**

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

### Other international regulations

# **Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement

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Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

### **SECTION 16. OTHER INFORMATION**

**Further information** 

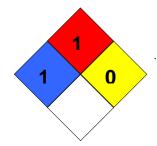
HMIS Classification : Health Hazard: 1

Flammability: 1 Physical hazards: 0

NFPA Classification : Health Hazard: 1

Fire Hazard: 1 Instability: 0





### Other Information

HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)

### Material safety datasheet sections which have been updated:

Revised Section(s): 2 4 8 11 13 15 Revision Date May 20 2015

## **Disclaimer**

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication. It is not a specification sheet nor should any displayed data be construed as a specification.

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