

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 2020.04.21

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### TPM Wash Solvent

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

**Product Name:** TPM Wash Solvent

**Synonyms:** Tripropylene Glycol Monomethyl Ether

**Product code:** SLV-TPM-01

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** Wash Solvent

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Supplier:**

**Germany**

Formlabs GmbH

Nalepastr. 18

12459 Berlin

+49 30 555 795 880

##### 1.4 Emergency telephone number:

1-800-424-9300 (24/7)

#### SECTION 2: Hazard(s) identification

##### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 (CLP):** The substance is not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).

**Hazard-determining components of labeling:** None

**Additional Information:** None

##### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:**

P270 Do not eat, drink or smoke when using this product

P261 Avoid breathing vapors

P273 Avoid release to the environment

P280 Wear protective gloves /eye protection

P264 Wash skin thoroughly after handling

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national regulations

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2.3 Other hazards: None known

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance:

Identification	REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 25498-49-1 EC number: 247-045-4	-	[2-(2-methoxymethylethoxy)methylethoxy]propanol	Not classified	100

3.2 Mixture: Not applicable.

Additional information: None

Full Text of H and EUH statements: See section 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes:

Show this Safety Data Sheet to the doctor in attendance.

##### Following inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

##### Following skin contact:

Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes. Continue rinsing for at least 15 minutes. See a physician if irritation persists.

##### Following eye contact:

Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if present to do so. Protect unexposed eye. Continue rinsing on the way to hospital.

##### Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by physician or poison control center. Rinse mouth with water. Never give anything to drink to an unconscious person. Seek medical advice.

##### Self-Protection of the first aider:

Not determined or not available.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Symptoms may include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time).

##### Delayed symptoms and effects:

Not determined or not available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

##### Specific treatment:

Not determined or not available.

##### Notes for the doctor:

Not determined or not available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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### Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

### Unsuitable extinguishing media:

Not determined or not applicable.

### 5.2 Special hazards arising from the substance or mixture:

Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors.

### 5.3 Advice for firefighters

#### Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

#### Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and material for containment and cleaning up:

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

### 6.4 Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

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

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

### 7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection



### 8.1 Control parameters

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Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

No occupational exposure limits noted for the ingredient(s).

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Derived No Effect Level (DNEL):**

**Ingredient Name:** [2-(2-methoxymethylethoxy)methylethoxy]propanol

**CAS #:** 25498-49-1

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	187 mg/m <sup>3</sup>
	Chronic - Dermal	96 mg/m <sup>3</sup>
Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
	Acute - Dermal	Not determined or not applicable.
	Chronic - Oral	8.2 mg/kg bw/day
	Chronic - Inhalation	19 mg/kg bw/day
	Chronic - Dermal	41 mg/kg bw/day
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
	Acute - Dermal	Not determined or not applicable.
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	Not determined or not applicable.
	Chronic - Dermal	Not determined or not applicable.

**Predicted No Effect Concentration (PNEC):**

**Ingredient Name:** [2-(2-methoxymethylethoxy)methylethoxy]propanol

**CAS #:** 25498-49-1

Environmental Protection Target	PNEC
Fresh water	116.2 mg/L
Freshwater sediments	433.4 mg/kg
Marine water	11.62 mg/L
Marine sediments	43.3 mg/kg
Food chain	Not determined or not available.
Microorganisms in sewage treatment	Not determined or not available.
Soil (agricultural)	18.52 mg/kg

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Air	No hazard identified
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### Information on monitoring procedures:

Not determined or not applicable.

## 8.2 Exposure controls

### Appropriate engineering controls:

Effective ventilation in all processing areas.

### Personal protection equipment

#### Eye and face protection:

Safety goggles

#### Skin and body protection:

Impervious clothing and chemical resistant gloves

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory protection

### General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organizational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

### Risk management measures to control exposure:

Not determined or not applicable.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear Liquid
Odor	Ethereal
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-77.8 °C
Initial boiling point/range	242.8 °C
Flash point (closed cup)	124 °C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not classified as flammable but will burn.
Upper flammability/explosive limit	8.5 %(V)
Lower flammability/explosive limit	0.5 %(V)
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.

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Density	0.965 g/cm <sup>3</sup> (20 °C)
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	277 °C
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	6.71 mm <sup>2</sup> /s (20 °C)
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### 9.2 Other information

#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity:

Stable at normal ambient temperature and pressure., May oxidize in the presence of air.

##### 10.2 Chemical stability:

Stable under normal conditions.

##### 10.3 Possibility of hazardous reactions:

None known.

##### 10.4 Conditions to avoid:

Extremes of temperature and direct sunlight. Product cannot ignite due to static electricity.

##### 10.5 Incompatible materials:

Copper. Copper alloys. Strong oxidizing agents. Aluminum

##### 10.6 Hazardous decomposition products:

None expected under normal use conditions.

#### SECTION 11: Toxicological information

##### 11.1 Information on toxicological effects

###### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Route	Result
[2-(2-methoxymethylethoxy)methyl ethoxy]propanol	oral	LD50 Rat: 3400 mg/kg
	inhalation	LC50 Rat: 50 mg/L (4 hours)
	dermal	LD50 Rabbit: 15440 mg/kg

###### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

###### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

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No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):**

Name	Classification
[2-(2-methoxymethylethoxy)methyl ethoxy]propanol	Not Applicable

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

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No data available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

##### Substance data:

Name	Result
[2-(2-methoxymethylethoxy)methylethoxy]propanol	LC50 Pimephales promelas: 11619 mg/L (96 hours)

##### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

##### Substance data:

Name	Result
[2-(2-methoxymethylethoxy)methylethoxy]propanol	EC50 Daphnia magna: >1000 mg/L

#### 12.2 Persistence and degradability

**Product data:** No data available.

##### Substance data:

Name	Result
[2-(2-methoxymethylethoxy)methylethoxy]propanol	Readily biodegradable.

#### 12.3 Bioaccumulative potential

**Product data:** No data available.

##### Substance data:

Name	Result
[2-(2-methoxymethylethoxy)methylethoxy]propanol	BCF: 1.162

#### 12.4 Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

#### 12.5 Results of PBT and vPvB assessment

##### Product data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

##### Substance data:

##### PBT assessment:

[2-(2-methoxymethylethoxy)methylethoxy]propanol	Substance is not PBT.
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##### vPvB assessment:



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[2-(2-methoxymethylethoxy)methylethoxy]propanol	Substance is not vPvB.
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12.6 Other adverse effects: No data available.

12.7 Hazard to the ozone layer

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

## SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses Waste product should not be allowed to contaminate soil or water. Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

Waste codes / waste designations according to LoW: Not determined or not available.

13.1.2 Waste treatment-relevant information: Not determined or not available.

13.1.3 Sewage disposal-relevant information: Not determined or not available.

13.1.4 Other disposal recommendations: It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

## SECTION 14: Transport information

### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
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UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

#### European regulations

**Inventory listing (EINECS):** All ingredients are listed or exempt.

**REACH SVHC candidate list:** None of the ingredients are listed.

**REACH SVHC Authorizations:** None of the ingredients are listed.

**REACH Restriction:** None of the ingredients are listed.

**Water hazard class (WGK) (Product):**

**Water hazard class (WGK) (Substance):**

Ingredient Name	CAS	Class
[2-(2-methoxymethylethoxy)met hylethoxy]propanol	25498-49-1	Water hazard class 1: slightly hazardous to water

#### Other regulations

**Germany TA Luft:** None of the ingredients are listed.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use,

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storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**