

PRECISION SURFACES INTERNATIONAL, INC.

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Mold Release Agent
Product Identifier: PSI-235-2
Supplier: Precision Surfaces International, Inc.
922 Ashland, Houston, TX 77008-6734
Emergency Telephone: Infotrac 800-535-5053
Recommended Use: Release Agent

SECTION 2: Hazard(s) Identification

Emergency overview

Flammable liquid and vapor. Harmful if inhaled or swallowed. Causes skin and eye irritation. Vapors irritating to the eyes and respiratory tract. Toxic to aquatic organisms.

Primary routes of entry

Inhalation, Skin absorption

Pictograms



Signal word

Danger!

Hazard label statements

H225 – Highly flammable liquid and vapor
H304 – May be fatal if swallowed and enters airways
H315 – Causes skin irritation
H336 – May cause drowsiness or dizziness
H410 – Very toxic to aquatic life with long lasting effects

Precautionary statements

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P261 – Avoid breathing mist/vapors/spray.
P273 – Avoid release to the environment.
P301+P310+P331 – If Swallowed: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P301+P352 – If on Skin: Wash with plenty of soap and water.
P305+P351+P338 – If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.

SECTION 3: Composition/Information on Ingredients

Ingredient	C.A.S. No.	% by Weight
2,2,4-trimethylpentane	540-84-1	50-100

SECTION 4: First-aid Measures

Description of first aid measures

Inhalation

If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

Skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact

Flush eye with water for 15 minutes. Get medical attention.

Ingestion

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Notes to physician

Treat symptomatically. If swallowed, gastric lavage is indicated.

SECTION 5: Fire-fighting Measures

Extinguishing media

Alcohol foam, CO2, Dry Chemical, Foam, Water fog

Unusual fire and explosion hazards

Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

Special firefighting procedures

Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame. Application of large quantities (flooding) of water instead of mist or spray preferred.

SECTION 6: Accidental Release Measures

Personal precautions

Small Spill – Wear butyl rubber or nitrile gloves Large Spill – Wear gloves, boot covers, synthetic apron, and goggles. See Section 8 for type.

Environmental precautions

Prevent entry into drains and/or waterways. Keep off of soil.

Steps to be taken in case material is released or spilled

Mark area and keep unnecessary personal away from spill area. Use non-sparking tools. Dike or contain spill. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations. Wash spill area with detergent solution. Dispose of all washings and contaminated items in accordance with waste regulations. Contact manufacturer for further instruction if needed.

SECTION 7: Handling and Storage**Handling**

Use only with good general ventilation. Keep away from heat and extinguish all open flames and pilot lights. Use explosion-proof equipment for large-quantity processing. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. DO NOT reuse empty container without commercial clean or recondition. FOR INDUSTRIAL USE ONLY.

Storage

Store indoors in a cool dry place under ambient conditions away from heat and direct sunlight. Keep container closed and upright when not in use. Ground containers of 5 gallons or larger.

SECTION 8: Exposure Controls/Personal Protection**Control parameters****Occupational exposure limits**

If a component is disclosed in Section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

		ACGIH		OSHA		
Ingredient	C.A.S. No.	TLV-TWA	TLB-STEL	PEL-TWA	PEL-Ceiling	Skin
2,2,4-trimethylpentane	540-84-1	N.E	N.E	N.E	N.E	NO

		OEL			
Ingredient	C.A.S. No.	8 hr	15 min	IDLH	Other Limit (Source)
2,2,4-trimethylpentane	540-84-1	1400 mg/m ³	2800 mg/m ³	N.E.	None

Engineering controls

Local exhaust as needed to control vapor or dust levels to below lowest component safe exposure limit. Explosion-proof ventilation required for processing large quantities.

Personal protective equipment (PPE)

Clean clothing to cover skin. Eye wash and safety shower.

Eye protection

Chemical splash goggles.

Skin protection

Butyl rubber gloves. Nitrile gloves. Supported PVA gloves.

Respiratory protection

If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use approved organic vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SECTION 9: Physical and Chemical Properties

Physical State:	Thin liquid
Appearance:	Clear thin liquid
Odor:	Solvent petroleum
Odor Threshold:	No data
pH @ 100%:	N/A
Melting/Freeze Point:	No data
Boiling Point:	96
Flash Point:	-7°C
Evaporation Rate:	Is slower than n-Butyl Acetate
Flammable Limits (LEL):	1.1
Flammable Limits (UEL):	6.0
Vapor Pressure:	No data
Vapor Density:	Is heavier than air
Specific Gravity:	0.720
Solubility in Water:	Negligible
Autoignition Temperature:	400
Partition Coefficient (log Pow):	4.60

SECTION 10: Stability and Reactivity

Chemical stability

Prolonged exposure to heat may cause solidification.

Incompatibility/materials to avoid

Strong bases or oxidants.

Hazardous reactions

Will not occur under normal conditions.

Hazardous decomposition products

Oxides of carbon. Formaldehyde in oxygen-deficient environments.

Conditions to avoid

This product is stable under normal storage conditions.

SECTION 11: Toxicological Information

Component toxicological information

Chemical Name	Test Data
2,2,4-trimethylpentane	LD50-Oral-rat=1000 mg/kg
2,2,4-trimethylpentane	LC50-Inh-rat-1Hr=6156 ppm

Acute effects - eye

Causes eye irritation. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Acute effects - skin

Moderate irritant. Prolonged contact may cause dermatitis. May be absorbed through skin in harmful amounts.

Acute effects - inhalation

Inhalation of vapors may cause irritation and drying of the nose, mucous membranes, and sore throat. Liquid particles breathed into the lungs may cause injury to the lungs, liver, or kidneys.

Acute effects - ingestion

May cause nausea and vomiting. Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

Chronic overexposure/other information

*Animal studies suggest that repeated or extreme overexposure to 2,2,4-trimethylpentane may cause kidney damage.

SECTION 12: Ecological Information

Component Ecological Information	
Chemical Name	Test Data
2,2,4-trimethylpentane	No Information

Summary of ecological information

Bioaccumulation Potential	No information indicating bioaccumulation
Persistence and Degradability	No information indicating persistence or degradability
Aquatic Toxicity	H410 Very toxic to aquatic life with long lasting effects

SECTION 13: Disposal Considerations**Disposal methods**

Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. Product "as sold" is regulated as a hazardous waste under federal RCRA regulations (D001). DO NOT landfill free liquid. Fuels blending or incineration of free liquid recommended if permitted.

SECTION 14: Transport Information

International Shipping Name	Octane Solution
ID Number	UN1262
Packing Group	II
Primary Hazard Class	3
Hazard Subclass	N/A
International EMS No	N/A
NA Emergency Response Guide No	128

SECTION 15: Regulatory Information**California Proposition 65 Statement**

None

SARA Section 311 Hazard Categories

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:
Immediate Health Hazard Fire Hazard Delayed Health Hazard

SARA Section 302 Extremely Hazardous Substances Present Above Reporting Limits**Chemical Name**

None

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

Chemical Name

None

Toxic Substances Control Act**Components Subject to Section 4 Testing/SNUR**

None

Section 8 Inventory

The chemical substances in this product are on the TSCA Section 8 Inventory

Section 12(B) Export Reporting

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: none

Component RCRA Codes

D001

CERCLA RQ Value (Minimum)

100 lbs as waste

Canadian WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class

D2B, B2

Product VOC (Calculated)

6 grams/ltr

SECTION 16: Other Information**NFPA Hazard Classification****Health:** 2**Flammability:** 3**Reactivity:** 0**Abbreviations**

N.A – Not Applicable

N.D. – Not Determined

N.E. – Not Established

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – US Occupational Health and Safety Administration

TLV-TWA – Threshold Limit Value-Time Weighted Average (8hrs)

STEL – Short-Term Exposure Limit (15 min)

C – Ceiling Value

PEL – Permissible Exposure Limit

OEL – Occupational Exposure Limit

IDLH – Immediately Dangerous to Life and Health

The above information and recommendation are believed to be accurate and reliable. However, no warranty, either expressed or implied, is made as to its accuracy or completeness and none is made as to fitness of this material for any purpose. The manufacturer or supplier shall not be liable for damages to person or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.

Issue Date:

04/06/12

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05/23/17