

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 1of 8
Print Date: 22-7-2024

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

1.1 Product Identification:

Product name: PlatSil® Part H Hardener

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

Identified applications: Component for Polyurethane Casting/Mold Rubber.
For Industrial/Professional Use only.
Uses advised against: Keep out of the reach of children.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency Phone Number:

For Belgium:
Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct
For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

The product is not classified as dangerous according to the provisions of EC Regulation 1272/2008 (CLP).

2.2 Label elements:

Not classified as hazardous.

Supplemental Information:

Avoid contact with mucous membranes and eyes.

This is one part of a two-part system.

Read and understand the hazard information on the other part before using.

2.3 Other hazards:

Based on available data, not considered to meet the criteria of PBT, vPvB.

Based on available data, does not contain endocrine disrupting properties.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Chemical Name	Cas no. EC No. Index no. Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Silicone dioxide	112926-00-8 601-214-2 - -	Not Classified	30-50
Methylhydrogensiloxane- Dimethylsiloxane Copolymer, Hydride terminated	69013-23-6 800-499-2 -	Eye Irrit. – Cat. 2 (H319)	6-9

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 2 of 8
Print Date: 22-7-2024

1,1,1,3,3,3-hexamethyldisilazane	999-97-3 213-668-5 - -	Flam. Liq. – Cat. 2 (H225) Acute Tox. (Oral) – Cat. 4 (H302) Acute Tox. (Dermal) – Cat. 3 (H311) Acute Tox. (Inhalation) – Cat. 4 (H332) Aquatic Tox. (Chronic) – Cat. 3 (H412) Acute Toxicity Estimate (ATE) Oral LD50 (Rat): 1.1 mL/kg bw Dermal LD50 (Rabbit): 585 mg/kg Inhalation LC50 (Rat): 1,516 ppm (6 hr)	4-5
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Exact concentrations are withheld as trade secret.

Other ingredients are not listed because they are either not hazardous or are below concentration/cut-off thresholds.

Full explanation of H phrases in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

Eye contact:

Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out.

Remove contact lenses if safe and easy to do.

Continue rinsing.

Get medical attention if irritation develops or persists.

Skin contact:

Wash contact area thoroughly with soap and water.

Get medical attention if irritation develops and persists.

Inhalation:

If breathing is difficult, remove person to fresh air.

Get medical attention if symptoms develop or persist.

Ingestion:

If swallowed, rinse mouth.

Drink water.

Induce vomiting only with medical supervision.

Get medical attention if you feel unwell.

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

May cause mild skin and eye irritation.

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

Not expected to be required.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, carbon dioxide (CO₂) or dry chemical.

Unsuitable extinguishing media:

Do not use solid water stream.

Solid stream of water into hot product may cause violent steam generation or eruption.

5.2 Special hazards arising from the substance or mixture:

Unusual Fire and Explosion Hazards:

Not classified as flammable or combustible.

Combustion Products:

Oxides of carbon, silicone and formaldehyde.

5.3 Advice for firefighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full-body protective clothing.

Cool fire-exposed containers with water.

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 3 of 8
Print Date: 22-7-2024

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Non-Emergency Personnel:

Remove all ignition sources.

Clear other non-emergency personnel from the area.

Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors.

Ventilate area.

Caution – spill area may be slippery.

Emergency Personnel:

Remove all ignition sources.

Clear non-emergency personnel from the area.

Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors.

Ventilate area.

Caution – spill area may be slippery.

6.2 Environmental precautions:

Prevent release to the environment.

Report spills and releases as required to appropriate authorities.

6.3 Methods and material for containment and cleaning up:

Containment:

Cover with an inert absorbent material and collect into an appropriate container for disposal.

Do not seal the container since CO₂ is generated on contact with moisture and dangerous pressure buildup can occur.

Clean-up:

Decontaminate floor area with a mixture of water plus isopropyl alcohol (20%), household ammonia (10%), and detergent (2%).

Other Information:

No additional information available.

6.4 Reference to other sections:

Refer to Section 8 for protective clothing and Section 13 for disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Use with adequate ventilation.

Avoid contact with the eyes, skin and clothing.

Wash thoroughly after handling.

Do not eat, drink or smoke in the work area.

Keep container closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities:

Store indoors at temperatures between 15 and 26°C (60 and 80°F).

Store in original containers.

Avoid getting moisture into containers.

Keep containers tightly closed.

Avoid contact with strong oxidizing agents.

7.3 Specific end use:

None identified.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Workplace/Occupational Exposure Limits:

Substance Name	Occupational Exposure Limit (TWA)	Occupational Exposure Limit (STEL)	Member State
Silicone dioxide	4 mg/m ³ (inhalable aerosol)	N/A	Germany (AGS)

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 4 of 8
Print Date: 22-7-2024

	0.02 mg/m3	0.16 mg/m3	Germany (DFG)
	1.5 mg/m3	N/A	Norway
	10 mg/m3 (Inhalable fraction); 2 mg/m3 (Respirable fraction)	N/A	Poland
	6 mg/m3 (Inhalable fraction); 2.4 mg/m3 (Respirable fraction)	N/A	United Kingdom

Biological Exposure Index:

None Established

Derived No Effect Level (DNEL):

Substance Name	End Use	Exposure Route	Potential Health Effects	Value
1,1,1,3,3,3-hexamethyldisilazane	Workers	Inhalation	Long term systemic effects	53 mg/m3
	Workers	Inhalation	Acute systemic effects	106 mg/m3
	Workers	Inhalation	Long term local effects	133 mg/m3
	Workers	Inhalation	Acute local effects	341 mg/m3
	Workers	Dermal	Long term systemic effects	7.5 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

None established.

8.2 Exposure controls:

Engineering Controls:

Use with adequate general or local exhaust ventilation to minimize exposure limits.
An eyewash facility and washing facility should be available in the work area.

Individual Protection Measures:

Eye/Face Protection:

Chemical safety glasses/goggles recommended.
Safety glasses should be consistent with EN 166 or equivalent.

Skin Protection:

Hand Protection:

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms.

Suggested gloves are impervious and made of butyl rubber or nitrile rubber with a breakthrough time greater than 60 minutes with a protection class of 3 or higher and a thickness greater than 0.35 mm.

NOTICE: Glove selection may vary depending on the use/application of the mixture, duration of use in a workplace, other chemicals handled, potential bodily reactions to glove materials and instructions/specifications provided by the glove supplier.

Protective Clothing:

Wear impervious clothing of compatible material such as cotton to prevent skin contact and contamination of personal clothing.

Respiratory Protection:

If ventilation is inadequate, use an air-purifying respirator with organic vapor cartridges.
Follow applicable regulations and good Industrial Hygiene practice.

Thermal Hazards:

Not classified as a flammable or combustible material.

Environmental Exposure Controls:

Harmful to aquatic life with long lasting effects.
Avoid release into the environment.
Do not dispose of chemical down drain.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	Liquid
Colour:	Varies
Odour:	None
Melting Point/Freezing Point:	Product not tested for melting point or freezing point

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 5 of 8
Print Date: 22-7-2024

Boiling Point or Initial Boiling Point and Boiling Range:	Product not tested for boiling point or initial boiling point and boiling range
Flammability:	Not applicable
Lower and Upper Explosion Limit:	Product not tested for lower and upper explosion limit
Flash Point:	>150°C (302°F) (estimated)
Auto-Ignition Temperature:	Product not tested for auto-ignition temperature
Decomposition Temperature:	Product not tested for decomposition temperature
pH:	Not applicable
Kinematic Viscosity:	50 cP – 68,000 cP @ 25°C
Solubility:	Insoluble in water
Partition Coefficient n-Octanol/Water (log value):	No test data available
Vapour Pressure:	<1.33 hPa @ 20°C (<1 mmHg @ 20°C)
Density and/or Relative Density:	1.0-1.3 @ 25°C
Relative Vapour Density:	Product not tested for relative vapour density
Particle Characteristics:	Product not tested for particle characteristics

9.2 Other Information:

Information With Regard to Physical Hazard Classes:

Explosive Properties:	Not explosive
Oxidizing Properties:	Not oxidizing
Other Safety Characteristics:	None available

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not normally reactive.

10.2 Chemical Stability:

Stable under recommended conditions.

10.3 Potential Hazardous Reactions:

None known.

10.4 Conditions to Avoid:

Avoid excessive heat.

10.5 Chemically Interacting Materials:

Avoid contact with strong oxidizers.

10.6 Hazardous Decomposition Products:

Thermal decomposition will generate carbon oxides, silicon oxides and formaldehyde.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity:

Oral:	Not acutely hazardous
Dermal:	Not acutely hazardous
Inhalation:	Not acutely hazardous

Skin Corrosion/Irritation:

Not classified.

Serious Eye Damage/Irritation:

Not classified.

Respiratory or Skin Sensitization:

Components are not classified as sensitizers.

Germ Cell Mutagenicity:

Components are not classified as mutagens.

Carcinogenicity:

Components are not classified as carcinogens.

Reproductive Toxicity:

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 6 of 8
Print Date: 22-7-2024

Components are not classified as reproductive toxins.

STOT-Single Exposure:

No data available.

STOT-Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

11.2 Information on Other Hazards:

Based on available data, this product does not contain substances which are/under assessment as Endocrine Disrupting at or above 0.1%.

SECTION 12: Ecological information

12.1 Toxicity:

No data available.

Avoid release to the environment.

12.2 Persistence and Degradability:

Not readily biodegradable.

12.3 Bioaccumulation:

Not expected.

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB assessment

Not assessed.

12.6 Endocrine Disruption Properties:

Based on available data, this product does not contain substances which are/under assessment as Endocrine Disrupting at or above 0.1%.

12.7 Other Adverse Effects:

No data available.

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

Waste From Residues/Unused Products:

Waste is classified as hazardous.

Dispose of in accordance with European Directives on waste and hazardous waste.

Dispose of in accordance with local regulations.

Contaminated Packaging:

Dispose of this container to a hazardous or special waste collection point.

European Waste Catalogue (EWC):

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information:

Do not flush to sewer or empty into drains.

Waste Codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Information relating to carriage

The product is not dangerous according to the current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and Rail (RID), of the International Maritime Dangerous Goods Code (IMDG) and of the International Air Transport Association (IATA) regulations.

14.1 UN number

The transport of this substance is not subject to regulations.

14.2 Proper load name according to UN Model Regulations

The transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

According to directive 1907/2006/EC, 2020/878
Version 2.0 Revision Date: 31-08-2023
Trade name: PlatSil® Part H Hardener

Page 7 of 8
Print Date: 22-7-2024

The transport of this substance is not subject to regulations.

14.4 Packing group

The transport of this substance is not subject to regulations.

14.5 Environmental hazards

The transport of this substance is not subject to regulations.

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Notes: Not applicable for product, as supplied.

SECTION 15: Legally required information

15.1 Safety, health and environmental regulations and legislation specific for the substance or mixture:

The mixture or substance is not subject to Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer, Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC, and Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals.

REACH:

Substances in this formulation imported to EU in >1 tonne/year are registered.

REACH Restriction:

These products do not contain SVHCs.

International Inventories:

To be determined.

15.2 Chemical Safety Assessment:

A Chemical Safety Assessment has not been conducted.

SECTION 16: Other information

Items in which relevant changes have been made from the previous version are highlighted in the main body of this document by a thicker vertical line.

Full text of the H statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. :	Acute Toxicity
Aquatic Tox. :	Aquatic Toxicity
Eye Irrit.:	Serious eye damage / eye irritation
Flam. Liq.:	Flammable Liquid

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth

According to directive 1907/2006/EC, 2020/878

Version 2.0

Revision Date: 31-08-2023

Page 8 of 8

Print Date: 22-7-2024

Trade name: PlatSil® Part H Hardener

response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECL - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice:

Provide proper information, instruction and training for users.

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated.

This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and should not be considered a guarantee or indication of quality.