



# SAFETY DATA SHEET

SDS No. 1907

Revision Date: July 20, 2023 Version: 5.0

GHS Compliant

## Section 1 - Identification of the substance/mixture and of the company

### 1.1 Product Identifier

Trade Name: **APHIX Silicone Adhesion Promoter**

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

General Use: Intermediate, Binding Agent

Restrictions on Use: None known

### 1.3 Details of the supplier of the safety data sheet:

Company: Smooth-On, Inc.,  
5600 Lower Macungie Rd., Macungie, PA 18062, USA  
Telephone: Phone (610) 252-5800

E-mail address of person: Visit our website at [www.smooth-on.com](http://www.smooth-on.com) or email  
[sds@smooth-on.com](mailto:sds@smooth-on.com)

1.4 **Emergency Contact:** Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

## Section 2 – Hazard(s) Identification

### 2.1 Classification of the substance or mixture:

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

**H225** Flammable Liquids – Category 2

**H411** Hazardous to the aquatic environment, long-term hazard – category 2

For the full text of the H-Statements mentioned in this Section, see Section 16

### 2.2 Label elements, including precautionary statements

**Labelling (REGULATION (EC) No 1272/2008) as amended**



**Pictogram(s):**

**Signal word: Danger**

#### **Hazards**

H225 Highly Flammable liquid and vapor

#### **Environmental Hazards**

H411 Toxic to aquatic life with long lasting effects

#### **General Precautions**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

#### **Prevention Precautions**

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P273 Avoid release to the environment.

P280 Wear protective gloves, long sleeves, and face shield or safety glasses

#### Response Precautions

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish.

P391 Collect spillage.

#### Storage Precautions

P403+P235 Store in a well-ventilated place. Keep cool.

#### Disposal Precautions

P501 Dispose of contents/container according to local, state and federal laws.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none known.

This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

## Section 3 - Composition / Information on Ingredients

### 3.1 Substances/Mixtures

The following ingredients are hazardous according to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200:

#### Hazardous components

| Chemical name               | Classification     | Concentration (% w/w) |
|-----------------------------|--------------------|-----------------------|
| <b>Hexamethyldisiloxane</b> |                    |                       |
| CAS-No. 107-46-0            | Flam. Liq. 2; H225 | >= 17 - < 24          |
| EC-No. 203-492-7            |                    |                       |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

#### Eye Contact

Flush eyes with plenty of water. If irritation persists, seek medical attention.

#### Skin Contact

In the event of irritation, wash thoroughly with soap and water.

#### Ingestion

Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed.**

None known.

**4.3 Indication of any immediate medical attention and specific treatment needed.**

None known.

**Section 5 - Fire-Fighting Measures****5.1 Extinguishing Media**

Water Fog, Dry Chemical, and Carbon Dioxide Foam

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

None known.

**5.3 Advice for firefighters**

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

**Section 6 - Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

**6.2 Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

**6.4 Reference to other sections**

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

**Section 7 - Handling and Storage****7.1 Precautions for safe handling**

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet local standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

### 7.3 Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

## Section 8 - Exposure Controls / Personal Protection

### 8.1 Control parameters:

#### Ingredients with workplace control parameters

| Ingredients          | CAS-No.  | Value type<br>(Form of exposure) | Control parameters/<br>Permissible concentration | Basis   |
|----------------------|----------|----------------------------------|--|---------|
| Hexamethyldisiloxane | 107-46-0 | TWA                              | 200 ppm  | DCC OEL |

### 8.2 Exposure controls

#### Respiratory Protection

Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

#### Hand Protection

Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

#### Eye Protection

Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### Other Protective Clothing/Equipment

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

#### Comments

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties:

|                        |         |                               |         |
|------------------------|---------|-------------------------------|---------|
| <b>Appearance:</b>     | Liquid  | <b>Vapor pressure:</b>        | No data |
| <b>Odor:</b>           | No data | <b>Vapor density (Air=1):</b> | No data |
| <b>Odor threshold:</b> | No data | <b>Relative density:</b>      | 0.84    |

|  |               |  |         |
|--|---------------|--|---------|
| <b>pH:</b>   | No data       | <b>Solubility:</b>                                   |         |
| <b>Melting / freezing point:</b>                     | No data       | <b>Viscosity:</b>                                    | 50 cP   |
| <b>Low / high boiling point:</b>                     | 212°F (100°C) | <b>Auto-ignition temperature:</b>                    | No data |
| <b>Flash Point:</b>                                  | 26.6°F (-3°C) | <b>Decomposition temperature:</b>                    | No data |
| <b>Evaporation rate:</b>                             | No data       | <b>Viscosity:</b>                                    | No data |
| <b>Flammability (solid, gas):</b>                    | No data       | <b>Explosive properties:</b>                         | No data |
| <b>Upper/lower flammability or explosive limits:</b> | No data       | <b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b> | No data |

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.

### 10.2 Chemical stability

These products are stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerization cannot occur

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

Strong bases and acids.

### 10.6 Hazardous decomposition products

Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

## Section 11- Toxicological Information

### 11.1 Information on toxicological effects

**Acute Toxicity:**  
 LD50 Oral (Rat): >16 ml/kg  
 LD50 Inhalation (Rat): 15956 ppm  
 LD50 Dermal (Rat): >2,000 mg/kg

#### Skin Corrosion/Irritation

No data.

#### Serious Eye Damage/Irritation

No data.

#### Respiratory/Skin Sensitization

No data.

#### Germ Cell Mutagenicity

No data.

#### Carcinogenicity

No component of these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

### Reproductive Toxicity

No data.

### Specific Target Organ Toxicity – Single Exposure

No data.

### Specific Target Organ Toxicity – Repeated Exposure

No data.

### Aspiration Hazard

No data.

### Potential Health Effects – Miscellaneous

No data.

## Section 12 - Ecological Information

### 12.1 Toxicity

|  |  |
|--|--|
| Toxicity to fish   | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.46 mg/l      |
| Toxicity to algae  | EC50 (Selenastrum capricornutum (green algae)): >0.55 mg/l |
| M-Factor (Acute aquatic toxicity)                                      | 1  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | NOEC (Daphnia sp.): 0.08 mg/l                              |

### 12.2 Persistence and Degradability

Not readily biodegradable.

### 12.3 Bioaccumulative Potential

Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 2,410  
Concentration: 0.04 mg/l

### 12.4 Mobility in Soil

No data.

### 12.5 Results of PBT and vPvB assessment

No data.

### 12.6 Other Adverse Effects

No data.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## Section 14 - Transport Information

### Regulated by DOT / IMDG / IATA

#### 14.1 UN number

DOT: - 1993    IMDG: - 1993    IATA: - 1993

#### 14.2 UN proper shipping name

DOT:                          Flammable liquid, n.o.s. (Hexamethyldisiloxane)

IMDG:                        Flammable liquid, n.o.s. (Hexamethyldisiloxane)

IATA:                        Flammable liquid, n.o.s. (Hexamethyldisiloxane)

#### 14.3 Transport hazard class(s)

DOT: - 3    IMDG: - 3    IATA: - 3

#### 14.4 Packing group

DOT: - II    IMDG: - II    IATA: - II

#### 14.5 Environmental hazards

DOT: - Marine pollutant                          IMDG: - Marine pollutant                          IATA: - Marine pollutant

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## Section 15 - Regulatory Information

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

#### **REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016)**

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

| Ingredients  | CAS-No.   | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|--------------|-----------|-----------------------|--------------------------------|
| Xylene       | 1330-20-7 | 100                   | *                              |
| Ethylbenzene | 100-41-4  | 1000                  | *                              |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**In the United States (EPA Regulations)  
TSCA Inventory Status (40 CFR710)**

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

None known.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and community Right-to-Know Act of 1986) Sections 311 and 312**

Fire

**State Right-to-Know**

**Component**

**CAS#**

**State**

Hexamethyldisiloxane

107-46-0

PA

Trimethylated silica treated with dimethyl siloxane

68-440-70-0

PA

**KEEP OUT OF REACH OF CHILDREN**

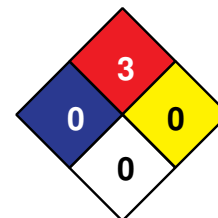


**WARNING:** Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**15.2 Chemical safety assessment:** No chemical safety assessment has been carried out for this substance/mixture by the supplier.

**16 - Other Information**

| HMIS |   |
|------|---|
| H    | 0 |
| F    | 3 |
| R    | 0 |



**NFPA**

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**Abbreviations and acronyms**



ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer**

The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.