

**Silsoft\* BAPD fluid**

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** Silsoft\* BAPD fluid

**Other means of identification**

**Synonyms:** Amino Silicone Fluid

**Recommended use and restriction on use**

**Recommended use:** Industrial use Component in personal care products

**Restrictions on use:** Not for aerosol use

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials LLC  
260 Hudson River Road  
Waterford NY 12188

**Contact person** : commercial.services@momentive.com

**Telephone** : General information  
+1-800-295-2392

**Emergency telephone number**  
**Supplier** : CHEMTREC  
1-800-424-9300

## 2. Hazard(s) identification

**Hazard Classification**

**Health Hazards**

Toxic to reproduction

Category 2

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** H361; Suspected of damaging fertility or the unborn child.

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### Precautionary Statements

<b>Prevention:</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
<b>Response:</b>	IF exposed or concerned: Get medical advice/attention.
<b>Storage:</b>	Store locked up.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Hazard(s) not otherwise classified (HNOC):</b>	None.

## 3. Composition/information on ingredients

### Substances

#### Composition information of impurities and stabilizers

Chemical Identity	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.
<b>Skin Contact:</b>	Wash with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact:</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Most important symptoms/effects, acute and delayed</b>	
<b>Symptoms:</b>	No data available.

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**Hazards:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treatment is symptomatic and supportive.

**5. Fire-fighting measures**

**General Fire Hazards:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** In case of fire, gives off (emits): Nitrogen Oxides Carbon oxides Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin, and clothing. Avoid breathing mist. Use personal protective equipment. Keep out of reach of children. Attention: Not for injection into humans. Caution: Contaminated surfaces may be slippery.

**Methods and material for containment and cleaning up:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

**Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.

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**7. Handling and storage**

<b>Precautions for safe handling:</b>	Sensitivity to static discharge is not expected. Do not get in eyes, on skin, on clothing. Do not breathe aerosol. See Section 8 of the SDS for Personal Protective Equipment. Use only with adequate ventilation.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep away from heat, sparks and open flame. Keep container tightly closed. Use original container or packaging of similar material of construction

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	TWA	5 ppm	
Octamethylcyclotetrasiloxane - Vapor.	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL	100 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (2014)

<b>Appropriate Engineering Controls</b>	Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
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**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	No data available.
<b>Eye/face protection:</b>	Safety glasses with side shields
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Use chemical-resistant, impervious gloves.
<b>Other:</b>	Wear suitable protective clothing and eye/face protection.
<b>Respiratory Protection:</b>	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).
<b>Hygiene measures:</b>	Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

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**9. Physical and chemical properties**

**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless

<b>Odor:</b>	amine like
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	ca. 177 °C
<b>Evaporation rate:</b>	< 1
<b>Flammability (solid, gas):</b>	No data available.

**Upper/lower limit on flammability or explosive limits**

<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.

<b>Heat of combustion:</b>	No data available.
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<b>Vapor pressure:</b>	No data available.
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<b>Vapor density:</b>	No data available.
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<b>Density:</b>	0.98 g/cm <sup>3</sup> estimated
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<b>Relative density:</b>	No data available.
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**Solubility(ies)**

<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
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<b>Auto-ignition temperature:</b>	Not applicable
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<b>Decomposition temperature:</b>	No data available.
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<b>SADT:</b>	No data available.
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<b>Viscosity, dynamic:</b>	No data available.
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<b>Viscosity, kinematic:</b>	No data available.
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<b>VOC:</b>	; No data available.
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**10. Stability and reactivity**

<b>Reactivity:</b>	No dangerous reaction if used as recommended.
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<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Keep away from heat, sparks and open flame.
<b>Incompatible Materials:</b>	Avoid contact with acids and oxidizing substances.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide Silicon dioxide. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

## 11. Toxicological information

<b>General information:</b>	This product is not tested. The information given is based on data available for the material, the components of the material, and similar materials. Aerosols of this product have a high inhalation toxicity potential. Therefore, when spraying this product and mixtures thereof with other components, exposure must be completely avoided. The use of respiratory equipment is mandatory for all spray applications.
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### Information on likely routes of exposure

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

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

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	LD 50 (Rat): 16,000 mg/kg
<b>Specified substance(s):</b>	
Octamethylcyclotetrasiloxane	LD 50 (Rat): > 4,800 mg/kg

#### Dermal

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**Product:** LD 50 (Rabbit): 16,000 mg/kg

**Specified substance(s):**  
Octamethylcyclotetrasiloxane LD 50 (Rat): > 2,375 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data. Not classified for acute toxicity based on available data.

**Specified substance(s):**  
Octamethylcyclotetrasiloxane LC50 (Rat): 36 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** (Rabbit): Slightly irritating.

**Serious Eye Damage/Eye Irritation**

**Product:** (Rabbit): Non irritating Not Classified

**Respiratory or Skin Sensitization**

**Product:** Magnusson-Kligmann, OECD Test Guideline 406 (Guinea Pig): Did not cause sensitization on laboratory animals.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

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**Germ Cell Mutagenicity**

**In vitro**

**Product:** Ames-Test: negative

**In vivo**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

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### Other effects:

This product is not tested., The health hazard evaluation is based on the toxicological properties of a similar material. Animal studies have shown that inhalation of aminosilicones or aminosilicone emulsions may be hazardous. A NIOSH approved respirator should be worn if processing of this material is likely to form an aerosol or mist.

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

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**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels (Headspace Test)) Not readily biodegradable.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12.40

**Partition Coefficient n-octanol / water (log K<sub>ow</sub>)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Octamethylcyclotetrasiloxane No data available.

**Other adverse effects:** No data available.

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**13. Disposal considerations**

<b>General information:</b>	The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.
<b>Disposal instructions:</b>	Disposal should be made in accordance with federal, state and local regulations.
<b>Contaminated Packaging:</b>	Dispose of as unused product.

**14. Transport information**

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

<b>Special precautions for user:</b>	This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.
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**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

**Chemical Identity**

Decamethylcyclopentasil  
oxane

**OSHA hazard(s)**

Causes mild skin irritation.; Respiratory hazard.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Reproductive toxicity

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

**Chemical Identity**

**Threshold Planning Quantity**

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

**Chemical Identity**

NJTS RTK 26175-26869A

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

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**Inventory Status:**

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	None of the active ingredients are listed in DSL but all such components are listed in NDSL	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
<b>Canada NDSL Inventory:</b>	<b>On or in compliance with the inventory</b>	<b>Remarks: Please contact your supplier for further information on the inventory status of this material.</b>
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	*	<b>1</b>
<b>Flammability</b>		<b>1</b>
<b>Physical Hazards</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 09/10/2020

**Revision Date:** No data available.

**Version #:** 5.0

**Further Information:** No data available.

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**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

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