SAFETY DATA SHEET
**Silicone Fluid, AST-111**



Version: 3.0 Date of last issue: 04/09/2026

## SECTION 1. IDENTIFICATION

Product name: Brookfield Silicone Fluid, AST-111

**Manufacturer or supplier's details**

| | |
|---|---|
| Company name of supplier: | AMETEK Brookfield |
| Address: | 11 Commerce Boulevard, Middleboro, MA 02346 USA |
| Telephone : | (800) 628-8139 |
| Emergency telephone: | Domestic (US/PR/Canada/US Virgin Is); 800 255 3924 |
| (ChemTel Inc.) | International (outside N. America); +(1) 813 248 0585 |

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**
Not a hazardous substance or mixture.

**GHS Label element**
Not a hazardous substance or mixture.

**Other hazards**
None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|---|---|
| Substance / Mixture: | Substance |
| Substance name: | Dimethyl siloxane, trimethylsiloxy-terminated |
| CAS-No.: | 63148-62-9 |
| Chemical nature: | Silicone |

**Hazardous ingredients**
No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

| | |
|---|---|
| If inhaled: | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact: | Wash with water and soap as a precaution. Get medical attention if symptoms occur. |
| In case of eye contact: | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed: | If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed: | None known. |
| Protection of first-aiders: | No special precautions are necessary for first aid responders. |
| Notes to physician: | Treat symptomatically and supportively. |

## SECTION 5. FIRE-FIGHTING MEASURES

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|---|---|
| Suitable extinguishing media: | Water spray<br>Alcohol-resistant foam<br>Dry chemical<br>Carbon dioxide (CO2) |
| Unsuitable extinguishing media: | None known. |
| Specific hazards during firefighting: | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products: | Carbon oxides<br>Silicon oxides |
| Specific extinguishing methods: | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters: | Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures: | Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions: | Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up: | Soak up with inert absorbent material.<br>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.<br>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

## SECTION 7. HANDLING AND STORAGE

| | |
|---|---|
| Technical measures: | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation: | Use only with adequate ventilation. |

| | |
|---|---|
| Advice on safe handling: | Handle in accordance with good industrial hygiene and safety practice.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage: | Keep in properly labeled containers.<br>Store in accordance with the particular national regulations. |
| Materials to avoid: | Do not store with the following product types: Strong oxidizing agents |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**
Contains no substances with occupational exposure limit values.

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|---|---|
| **Engineering measures**: | Processing may form hazardous compounds (see section 10).<br>Ensure adequate ventilation, especially in confined areas.<br>Minimize workplace exposure concentrations. |

**Personal protective equipment**

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|---|---|
| Respiratory protection: | No personal respiratory protective equipment normally required. |
| Hand protection<br>Remarks: | Wash hands before breaks and at the end of workday. |
| Eye protection: | Wear the following personal protective equipment: Safety glasses |
| Skin and body protection: | Skin should be washed after contact. |
| Hygiene measures: | Ensure that eye flushing systems and safety showers are located close to the working place.<br>When using do not eat, drink or smoke.<br>Wash contaminated clothing before re-use.<br>These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. |

For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Brookfield customer service group.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | Liquid |
| Color: | Colorless |
| Odor: | Characteristic |
| Odor Threshold: | No data available |
| pH: | No data available |
| Melting point/freezing point: | No data available |

| | |
|---|---|
| Initial boiling point and boiling range: | > 65 °C |
| Flash point: | > 101.1 °C |
| Method: | Closed cup |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | Not applicable |
| Upper explosion limit: | No data available |
| Lower explosion limit: | No data available |
| Vapor pressure: | No data available |
| Relative vapor density: | No data available |
| Relative density: | 0.97 |
| Solubility(ies) | |
| Water solubility: | No data available |
| Partition coefficient: noctanol/water: | No data available |
| Autoignition temperature: | > 400 °C |
| Decomposition temperature: | No data available |
| Viscosity | |
| Viscosity, kinematic: | 500 cSt |
| Explosive properties: | Not explosive |
| Oxidizing properties: | The substance or mixture is not classified as oxidizing. |
| Molecular weight: | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity: | Not classified as a reactivity hazard. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous reactions: | Can react with strong oxidizing agents.<br>When heated to temperatures above 150 °C (300 °F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required.<br>See OSHA formaldehyde standard, 29 CFR 1910.1048 Hazardous decomposition products will be formed at elevated temperatures. |
| Conditions to avoid: | None known. |
| Incompatible materials: | Oxidizing agents |

Hazardous decomposition products
Thermal decomposition: Formaldehyde

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
Inhalation
Skin contact
Ingestion
Eye contact

**Acute toxicity**
Not classified based on available information.

**Product:**
Acute oral toxicity: LD50 (Rat): > 15,400 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

**Skin corrosion/irritation**
Not classified based on available information.

**Product:**
Species: Rabbit
Result: No skin irritation
Remarks: Based on test data

**Serious eye damage/eye irritation**
Not classified based on available information.

**Product:**
Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

**Respiratory or skin sensitization**
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

**Product:**
Assessment: Does not cause skin sensitization.
Test Type: Maximization Test (GPMT)
Species: Guinea pig
Remarks: Based on data from similar materials

**Germ cell mutagenicity**
Not classified based on available information.

**Product:**

| | |
|---|---|
| Genotoxicity in vitro: | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br>Remarks: Based on data from similar materials |

**Carcinogenicity**
Not classified based on available information.

**Product:**
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

| | |
|---|---|
| Carcinogenicity - Assessment: | Animal testing did not show any carcinogenic effects. |
| **IARC** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| **OSHA** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| **NTP** | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

**Reproductive toxicity**
Not classified based on available information.

**Product:**

| | |
|---|---|
| Effects on fertility: | Species: Rabbit, male<br>Application Route: Ingestion<br>Symptoms: No effects on fertility.<br>Remarks: Based on data from similar materials |
| Effects on fetal development: | Test Type: Prenatal development toxicity study (teratogenicity)<br>Species: Rabbit, female<br>Application Route: Skin contact<br>Symptoms: No effects on fetal development.<br>Remarks: Based on data from similar materials |
| Reproductive toxicity - Assessment: | No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. |

**STOT-single exposure**
Not classified based on available information.

**STOT-repeated exposure**
Not classified based on available information.
**Product:**
Routes of exposure: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: Skin contact
Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

**Repeated dose toxicity**

**Product:**
Species: Rat
Application Route: Ingestion
Remarks: Based on data from similar materials

Species: Rabbit
Application Route: Skin contact
Remarks: Based on data from similar materials

**Aspiration toxicity**
Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
No data available

**Persistence and degradability**
No data available

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**Other adverse effects**
No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | |
|---|---|
| Resource Conservation and Recovery Act (RCRA): | This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. |
| Waste from residues: | Dispose of in accordance with local regulations. |
| Contaminated packaging: | Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |

## SECTION 14. TRANSPORT INFORMATION

**International Regulation**

**UNRTDG**
Not regulated as a dangerous good

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable for product as supplied.

**Domestic regulation**
**49 CFR**
Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

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

**CERCLA Reportable Quantity**
This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**
This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards**: No SARA Hazards

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

**SARA 313**: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Pennsylvania Right To Know**

| | | |
|---|---|---|
| Dimethyl siloxane, trimethylsiloxy-terminated | 63148-62-9 | 90 - 100 % |

**New Jersey Right To Know**

| | | |
|---|---|---|
| Dimethyl siloxane, trimethylsiloxy-terminated | 63148-62-9 | 90 - 100 % |

**California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**
KECI: All ingredients listed, exempt or notified.

REACH: All ingredients (pre-)registered or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

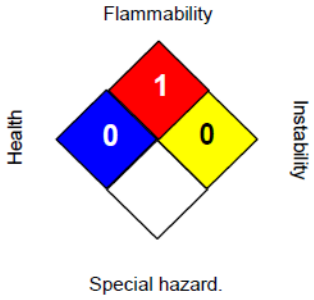
| | |
|---|---|
| ENCS/ISHL: | All components are listed on ENCS/ISHL or exempted from inventory listing. |
| PICCS: | All ingredients listed or exempt. |
| DSL: | All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL). |
| NZIoC: | All ingredients listed or exempt. |

**Inventories**
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

## SECTION 16. OTHER INFORMATION

**Further information**

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 0 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Sources of key data used to compile the Material Safety Data Sheet: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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