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SECTION 1. IDENTIFICATION

Product name: Brookfield Silicone Fluid, AST-111, 495-505 cP

Manufacturer or supplier's details

Company name of supplier: Address: Telephone : Emergency telephone: (ChemTel Inc.) AMETEK Brookfield 11 Commerce Boulevard, Middleboro, MA 02346 USA (800) 628-8139 Domestic (US/PR/Canada/US Virgin Is); 800 255 3924 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.

If swallowed:

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, 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.



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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical 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 Silicon oxides Formaldehyde
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus for firefighting if necessary. 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. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. 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. 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. 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. 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.



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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.

precautions.

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



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	Initial boiling po	oint and boiling range:	> 65 °C				
	Flash point:		> 120 °C Method: Closed cup				
	Evaporation ra	te:	No data availa	ble			
	Flammability (s	solid, gas):	Not applicable				
	Upper explosic	on limit:	No data availa	ble			
	Lower explosic	on limit:	No data availa	ble			
	Vapor pressure	e:	No data availa	ble			
	Relative vapor	density:	No data availa	ble			
	Relative densit	ty:	0.97				
	Solubility(ies) Water solut	bility:	No data availa	ble			
	Partition coeffic	cient: noctanol/water:	No data availa	ble			
	Autoignition ter	mperature:	> 400 °C				
	Decomposition	temperature:	No data availa	ble			
	Viscosity Viscosity, ki	inematic:	500 cSt				
	Explosive prop	erties:	Not explosive				
	Oxidizing prop	erties:	The substance	or mixture is not classified as o	kidizing.		
	Molecular weig	ght:	No data availa	ble			
SECT	ON 10. STABIL	ITY AND REACTIVITY					
	Reactivity:		Not classified a	as a reactivity hazard.			
	Chemical stabi	ility:	Stable under n	ormal conditions.			
	Possibility of h	azardous reactions:	When heated t air, trace quant ventilation is re See OSHA for	strong oxidizing agents. to temperatures above 150 °C (3 tities of formaldehyde may be rel equired. maldehyde standard, 29 CFR 19 products will be formed at eleva	leased. Adequate 10.1048 Hazardous		
	Conditions to a	avoid:	None known.				
	Incompatible m	naterials:	Oxidizing agen	nts			



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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.



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Product:

Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials

Carcinogenicity

Genotoxicity in vitro:

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 **Application Route: Ingestion** Symptoms: No effects on fertility. Remarks: Based on data from similar materials

Effects on fetal development:	Test Type: Prenatal development toxicity study (teratogenicity) Species: Rabbit, female Application Route: Skin contact Symptoms: No effects on fetal development. 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. <u>Product:</u> Routes of exposure: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.



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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. 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



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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	•	contain any chemicals kr cer, birth, or any other re	
The ingredients of this product are reported in the following KECI: All ingredients listed, ex			
REACH:	All ingredients (pre-)reg	gistered or exempt.	
TSCA:		s in this material are incl A Inventory of Chemical	
AICS:	All ingredients listed or	exempt.	
IECSC:	All ingredients listed or	exempt.	



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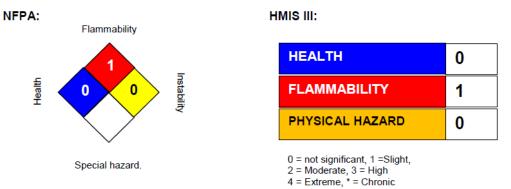
ENCS/ISHL:	All components are listed on ENCS/ISHL or exempted from inventory listing.
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
NZIoC:	All ingredients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



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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