

SAFETY DATA SHEET

SDS DATE: 11/10/2015

SILICONE 100™

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SILICONE 100™

DISTRIBUTOR: Triangle Chemical Company
ADDRESS: 206 Lower Elm Street
Macon, Georgia 31208

Cardinal Chemical Company
1583 Highway 258 South
Kinston, NC 28504

EMERGENCY CHEMTREC PHONE: US: 1-800-424-9300 International: 1-202-483-7616

CHEMICAL NAME: Polyether-modified polysiloxane
CHEMICAL FAMILY: Organosilicone surfactant
CHEMICAL FORMULA: Mixture

PRODUCT USE: Adjuvant

SECTION 1 NOTES: None

SECTION 2: HAZARDOUS INGREDIENTS

GHS Ratings:

Toxicity Categories

Acute toxicity (inhalation) Category 4
Eye Irritation Category 2A



Signal Word: **WARNING**

GHS HAZARDS

H319 Causes serious eye irritation.
H332 Harmful if inhaled.

GHS PRECAUTIONS

P102 Keep out of reach of children.
P103 Read label before use.
P234 Keep only in original container.
P260 Do not breathe dust, fumes, gas, mist, vapors, or spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
P302+353 IF ON SKIN: Wash with plenty of soap and water.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing.
P311 Call a POISON CENTER, doctor or physician.
P337+313 If eye irritation persists get medical advice or attention.
P402 +233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents in container to an approved waste disposal facility in accordance with all local, regional, national and international regulations.

SECTION 3: HAZARDS IDENTIFICATION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Polyether modified trisiloxane	134180-76-0	70 – 90%

NOTE: Product does NOT contain any pesticides or pest control agents.

SECTION 3 NOTES: These specific chemical identities and or exact percentage (concentration) of composition have been withheld as a trade secret.

CARCINOGENICITY OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SAFETY DATA SHEET

SDS DATE: 11/10/2015

SILICONE 100™

SECTION 4: FIRST AID MEASURES

Have the product container with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do then continue rinsing. If eye irritation persists: Get medical advice or attention.

IF ON SKIN OR CLOTHING: Take off contaminated clothing and wash it before reuse. Wash with soap and water for several minutes. Call a poison center, doctor, chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice. If skin irritation occurs: Get medical advice or attention.

IF SWALLOWED: Unless advised otherwise by a poison control center or doctor, have person rinse mouth with water, if able. Do not give anything by mouth to an unconscious person. Immediately call a poison center, doctor, chemical manufacturer, importer, or distributor to specify the appropriate source of emergency medical advice.

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

SECTION 5: FIRE FIGHTING MEASURES

NFPA HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: -

IN CASE OF FIRE: Use foam, carbon dioxide, dry powder, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished with carbon dioxide or dry chemical. Do not use water jet or foam directly on the fire. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In the event of fire the following can be released: Carbon monoxide, carbon dioxide, silicon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Surround and absorb all spills. Material should be collected and disposed in proper manner. Dike the area to prevent spill from spreading. Soak up spill with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and place in a chemical waste container for disposal. Wear suitable protective equipment. Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING Keep out of reach of children. Read label before use. Do not eat, drink or smoke when using this product. Wear respiratory protection when spraying. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection.

STORAGE: Store in a cool well-ventilated place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies. For optimal storage, store between 40° and 90° F.

SECTION 7 NOTES: None

SAFETY DATA SHEET

SILICONE 100™

SDS DATE: 11/10/2015

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION:	Good general (mechanical) ventilation should be sufficient to control airborne levels or outdoor use should be satisfactory.
RESPIRATORY PROTECTION:	Wear dust/mist respirator (OSHA/NIOSH TC-21C) approved respirator with N,R,P or HE filter.
EYE PROTECTION:	Safety goggles and/or face shield is recommended for use.
SKIN PROTECTION:	Examples of suitable gloves are those made by the company Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail vertrieb@kcl.de, with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account. These recommendations apply only to the product mentioned in the safety data sheet that we supply and the purpose that we indicate. Glove material: gloves made of nitrile (NBR) Break through time: 480 min Glove thickness: 0.11 mm Glove material: gloves made of natural latex Break through time: 480 min Glove thickness: 0.5 mm Glove material: gloves made of chloroprene (CR, e.g. Neoprene) Break through time: 480 min Glove thickness: 0.65 mm Glove material: gloves made of butyl (IIR) Break through time: 480 min Glove thickness: 0.7 mm
Body Protection:	Long-sleeved shirts and pants.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Eye wash and safety shower should be easily accessible.
WORK HYGIENIC PRACTICES:	Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.
EXPOSURE GUIDELINES:	If exposed, see section 4 for acute exposure first aid.
SECTION 8 NOTES:	None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	light yellow	FLAMMABLE LIMITS IN AIR, UPPER:	Unknown
ODOR:	Characteristic	(% BY VOLUME)	LOWER: Unknown
ORDER THRESHOLD:	Not known	VAPOR PRESSURE (mmHg):	@ Unknown F: Unknown C: Unknown
PHYSICAL STATE:	Liquid	VAPOR DENSITY (AIR = 1):	@ Unknown F: Unknown C: Unknown
pH AS SUPPLIED:	6 - 8 (25 °C) 40 g/l	RELATIVE DENSITY:	0.999 to 1.029
INITIAL BOILING POINT:	F: Unknown C: Unknown	EVAPORATION RATE:	Unknown
BOILING POINT RANGE:	F: Unknown C: Unknown	BASIS (butyl acetate=1):	
MELTING POINT:	F: Unknown C: Unknown	SOLUBILITY IN WATER:	Soluble
FREEZING POINT:	F: Unknown C: Unknown	PARTITION COEFFICIENT: (n-octanol/water):	Unknown
FLASH POINT:	F: >216 C: >102	AUTO-IGNITION TEMPERATURE:	Unknown
METHOD USED:	TAG CC	DECOMPOSITION TEMPERATURE:	Unknown
FLAMMABILITY (solid, gas):	Not applicable	Viscosity, dynamic :	40 - 90 mPa·s (25 °C) Method: DIN 53019

SECTION 9 NOTES: Values are not product specifications.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SAFETY DATA SHEET

SDS DATE: 11/10/2015

SILICONE 100™

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable Unstable

CONDITIONS TO AVOID (STABILITY): None with proper storing and handling.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

MIXTURE TOXICITY

Acute toxicity (oral):	LD50	Species: Quail Dose: > 2,250 mg/kg
Acute toxicity (inhalation):	LC50	Species: rat Exposure duration: 4 h Test atmosphere: Dust/Mist Dose: 1.08 mg/l Method: OECD Test Guideline 403
Acute toxicity (dermal)	: LD50 LD50	Species: rabbit Dose: 1,550 mg/kg Species: rat Dose: > 2,000 mg/kg

Irritation/corrosion of the skin: Result: slight irritant effect - does not require labelling

Serious eye damage/ eye irritation: Species: rabbit Result: strong irritant

Respiratory/ skin sensitization: Species: Guinea pig Result: non-sensitizing
Classification: Did not cause sensitization on laboratory animals.

COMPONENT TOXICITY None

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

ECOTOXICITY: Ecotoxicology Assessment
Acute aquatic toxicity: no data available
Chronic aquatic toxicity: no data available

Toxicity

Aquatotoxicity, fish: Species: rainbow trout Exposure duration: 96 h Dose: LC50 2.1 mg/l

Aquatotoxicity, invertebrates: Species: Daphnia magna Exposure duration: 48 h Dose: EC50 1.1 mg/l

Aquatotoxicity, algae / aquatic plants: Exposure duration: 72 h Dose: EbC50 28.2 mg/l Remarks: refer to biomass Exposure duration: 72 h Dose: ErC50 152.2 mg/l Remarks: growth rate

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 12 NOTES: None

SAFETY DATA SHEET

SILICONE 100™

SDS DATE: 11/10/2015

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not contaminate water, food or feed by storage or disposal. In accordance with local authority regulations, take to special waste incineration plant. Dispose of contents in container to an approved waste disposal facility in accordance with all local, regional, national and international regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent) adding rinse water to application tank. If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by local regulations.

RCRA HAZARD CLASS: None

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

DOT Shipping Description: D.O.T. Road/Rail

UN number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethersiloxane)
Transport hazard class(es): 9
Packing group: III
Environmental hazards (Marine pollutant): Yes
Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

UN number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethersiloxane)
Transport hazard class(es): 9
Packing group: III
Environmental hazards: --
Special precautions for user: Yes
IATA-C: Environmentally hazardous
IATA-P: Environmentally hazardous

Sea transport IMDG-Code/GGVSee (Germany)

UN number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethersiloxane)
Transport hazard class(es): 9
Packing group: III
Environmental hazards (Marine pollutant): Yes
Special precautions for user: Yes
EmS: F-A,S-F
Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information.

SECTION 14 NOTES: None

SAFETY DATA SHEET

SILICONE 100™

SDS DATE: 11/10/2015

SECTION 15: REGULATORY INFORMATION

California Proposition 65 Statement: Notification: No

This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

Canada : WHMIS CLASSIFICATION

Class D, Division 2, Subdivision B

This product does not contain component(s) on the WHMIS Ingredient Disclosure List.

Other regulations : CTFA: complies

This product contains one or more chemicals that are subject to reporting under SARA Title III, Section 313.

SARA Title III Section 311/312 Hazard Categories: Acute Health Hazard

State Right to Know : No components subject to "Right-To-Know" legislation in the following States: NJ, PA, MA and RI

SARA 313: This product contains no SARA Title III, Section 313 listed chemicals.

SARA EHS: NO

TSCA lists: TSCA - All intentional ingredients are listed in the TSCA Inventory or comply with TSCA Polymer Exemption criteria per 40 CFR 723. - Yes

SEC 8(E) - Yes

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

DISCLAIMER:

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.