MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Carlisle General Purpose 100% Silicone Sealant - Clear**
Synonyms: **Clear Silicone Sealant, Silicone elastomer**

Manufacturer/Supplier
Carlisle HVAC Products
900 Hensley Lane
Wylie, TX 75098
Internet Address: **www.carlisleHVAC.com**
Fax Number: **(972) 442-0076**

Phone Numbers
Medical Emergency:
CHEMTREC (USA): **(800) 424-9300**
CHEMTREC **(**International**)**:
MSDS Assistance: **(972) 442-6545**
Fax On Demand: **NA**
Technical Assistance: **(888) 229-2199**
Customer Service: **(888) 229-0199**

1. COMPONENT INFORMATION

Component	CAS No.	Percent Range	Hazardous in Blend
Hydrotreated middle petroleum Distillates	**64742-46-7**	**≤ 7%**	**Yes**
Ethyltriacetoxysilane	**17689-77-9**	**1.0% - 5.0%**	**Yes**
Methyltriacetoxysilane	**4253-34-3**	**1.0% - 5.0%**	**Yes**
Silicon Dioxide	**7631-86-9**	**7.0% - 13.0%**	**No**

Hazards: **The above components are hazardous as defined in 29 CFR 1910.1200.**

2A. OTHER INGREDIENTS Greater than 3%

Component	CAS No.
Hydroxyl terminated dimethyl siloxane	**70131-67-8**

2. HAZARDS IDENTIFICATION

Emergency and Hazards Overview:

Primary Route of Exposure: Skin x Inhalation x Eye x Ingestion x

Health Effect Information
Eye Contact: **Direct contact may cause mild irritation**
Skin Contact: **May cause mild irritation**

Inhalation: **Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor concentration is attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.**
Ingestion: **Low ingestion hazard in normal use.**

Medical Conditions Aggravated by Exposure: **No known applicable information.**

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID INFORMATION

Eye Contact: **Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.**
Skin Contact: **No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.**
Inhalation: **If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.**
Ingestion: **If irritation or discomfort occurs, obtain medical advice.**

Notes to Physician: **Treat according to person's condition and specifics of exposure.**

5. FIRES AND EXPLOSION INFORMATION

Flammable Properties

Flash Point: **>212°F (>100°C)**	Test Method: **Closed Cup**
Flame extension: **ND***	Test Method:
Flammable Limits in Air	
Upper Percent: **ND**	
Lower Percent: **ND**	
Auto ignition Temperature: **ND**	Test Method:

NFPA Classification: **Health 1** **Flammability 1** **Reactivity 0**

Extinguishing Media: **On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.**

Fire Fighting Measures

Special Fire Fighting Procedures and Equipment: **Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.**

Unusual Fire and Explosion Conditions: **None**

Hazardous Combustion By-Products: **None known**

***ND – Not Determined**

6. ACCIDENTAL RELEASE MEASURES

Containment and Clean up: **Observe all personal protections equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and 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 federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.**

Note: See Section 8 for Personal Protective Equipment for Spills.

7. HANDLING AND STORAGE INFORMATION

Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed.

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture. This material in its finely divided form presents an explosion hazard. Follow NFPA 654 (for chemical dusts) or 484 (for metal dusts) as appropriate for managing dust hazards to minimize secondary explosion potential.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Exposure Limits and Guidelines

Component	CAS No.	Exposure Limit
Hydrotreated Middle Petroleum Distillates	**64742-46-7**	**OSHA PEL for oil mists TWA 5 mg/m³**
Ethyltriacetoxysilane	**17689-77-9**	**See guidelines below for acetic acid***
Methyltriacetoxysilane	**4253-34-3**	**See guidelines below for acetic acid***

***Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.**

Personal Protective Equipment

Eye/Face Protection: **Use proper protection – safety glasses as a minimum.**

Skin Protection: **Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.**

Respiratory Protection: **Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.**

Personal Hygiene:

Engineering Controls / Work Practices

Ventilation: **Local Ventilation: Recommended.**

General Ventilation: Recommended.

Other:

Personal Protective Equipment for Spills

Eyes: Use full face respirator.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Precautionary Measures: Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Use reasonable care.

Comments: Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection.

When heated to temperatures above 150˚C (300˚F) in the presence of air, product can form formaldehyde vapors. Physical and health hazard information is readily available on the Material Safety Data Sheet.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: **Clear paste**	Vapor Pressure: **ND**
Odor: **Acetic Acid odor**	Vapor Density (air=1): **ND**
Physical state: **N/A**	Percent Volatile by Weight: **ND**
pH: **ND**	Volatile Organic Content: **30 gms/l**
DOT Corrosivity: **ND**	Molecular Weight: **ND**
Boiling Point: **ND**	Average Carbon Number: **ND**
Melting Point: **ND**	Viscosity @ 77 F: **ND**
Specific Gravity: **1.007 @ 25°C**	
Pour Point: **ND**	
Solubility in Water: **ND**	
Octanol / Water Coefficient: **ND**	

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: **Stable**
Hazardous Polymerization: **Hazardous polymerization will not occur.**

Conditions to Avoid: **None.**

Materials to Avoid: **Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.**

Hazardous Decomposition Products: **Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.**

11. TOXICOLOGICAL INFORMATION (will only print available data)

No known applicable information
No other toxicological information available

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: **Complete information is not yet available.**

Environmental Effects: **Complete information is not yet available.**

Fate and Effects in Waste Water Treatment Plants: **Complete information is not yet available.**

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p. 34, 1993.
This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL INFORMATION

RCRA Hazard Class (40 CFR 261)
When a decision is made to discard this material, as received, is it classified as a waste? No.
State or local laws may impose additional regulatory requirements regarding disposal.

14. TRANSPORTATION INFORMATION

DOT Road Shipment Information (49 CFR 172.101): **Not subject to DOT.**

Ocean Shipment (IMDG): **Not subject to IMDG code.**

Air Shipment (IATA): **Not subject to IATA regulations.**

Other: **No other information available.**

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355): **None.**

Section 304 CERCLA Hazardous Substances (40 CFR 302): **None.**

Section 311/312 Hazard Class (40 CFR 370):

Acute: No
Chronic: No.
Fire: No
Pressure: No.
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372): **None present or none present in regulated quantities.**

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt%	Component Name
7631-86-9	**7.0 – 13.0**	**Silicon dioxide**

New Jersey

70131-67-8	**70.0 – 90.0**	**Dimethyl siloxane, hydroxyl-terminated**
7631-86-9	**7.0 – 13.0**	**Silicon dioxide**
64742-46-7	**<=7.0**	**Hydrotreated middle petroleum distillates**
17689-77-9	**1.0 – 5.0**	**Ethyltriacetoxysilane**
4253-34-3	**1.0 – 5.0**	**Methyltriacetoxysilane**

Pennsylvania

70131-67-8	**70.0 – 90.0**	**Dimethyl siloxane, hydroxyl-terminated**
7631-86-9	**7.0 – 13.0**	**Silicon dioxide**
64742-46-7	**<=7.0**	**Hydrotreated middle petroleum distillates**

U.S. TSCA Inventory: **All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory.**

Canadian WHMIS Classification
Class: D, Division 2 – May cause irritation

Other Regulations: **No other information available.**

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16. OTHER INFORMATION

Health and Environmental Label Language
All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.

All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

MSDS Revisions
Previous Version Date: **NEW**
Section
Old Information: **NEW**
New Information: **NEW**

Prepared By: **R&D Department**

Disclaimer of Warranty: **The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any**

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