SAFETY DATA SHEET

NEUTRAL CURE SEALANT - CLEAR

Version:	Revision Date:	MSDS Number:	Date Completed:
2.0	03/2020	GHS-15002-NCCL	03/2020

Product Name: All Purpose Sealant - Clear

Manufacturer or supplier's details

Company name of supplier: JIT Silicones Plus

Address: 5 Industrial Park Drive
Oakdale, PA 15071

Telephone: 855-548-7587

Emergency Telephone: 24 Hour Emergency Telephone:
CHEMTREC: (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use: Adhesive, binding agents

SECTION 2. HAZARDS IDENTIFICATION

Hazard Classification

GHS Classification in accordance with 29CFR 1910.1200

Eye irritation – Category 2A
Skin sensitization – Category 1
Specific target organ toxicity – repeated exposure – Category 2 - Oral

GHS Label Element

Hazard Pictograms

Signal Word: WARNING!

Hazards

May cause an allergic skin reaction.
Causes serious eye irritation.
May cause damage to organs (Blood) through prolonged or repeated exposure IF SWALLOWED.

Precautionary Statements:

Prevention

Do not breathe dust/fume/gas/mist/ vapors/spray.
Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/eye protection/face protection.

Response
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Get medical advice/ attention if you feel unwell.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Wash contaminated clothing before reuse.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards: No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical nature: Silicone elastomer

Component	CASRN	Concentration
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	22984-54-9	>= 3.0 - <= 4.0 %
Vinyltri (methylethylketoxime) silane	2224-33-1	>= 0.99 - <= 1.0 %
Methyltri(ethylmethylketoxime)silane	Not available	>= 0.28 - <= 0.38 %

isomers and oligomers		

SECTION 4. FIRST AID MEASURES

Description of First aid measures

General advice:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Inhalation:	Move person to fresh air and keep comfortable for breathing. Consult a physician.
Skin contact:	Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
Eye contact:	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several minutes. If effects occur, consult a physician, preferably an ophthalmologist
If swallowed:	No emergency medical treatment necessary
Most important symptoms and effects, both acute and delayed:	Aside from the information found under Description of first aid measure (above) and indication of immediate medical attention And special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology information
Protection of first-aiders:	No special precautions are necessary for first aid responders.
Indication of any immediate medical attention and special treatment needed Notes to Physician:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray Alcohol-resistant foam

	Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media:	None known.
Special hazards arising from the substance or mixture: Hazardous combustion products:	Carbon oxides Silicon oxides Nitrogen oxides (NOx)
Unusual Fire and Explosion Hazards:	Exposure to combustion products may be a hazard to health.
Advice for firefighters	Fire Fighting Procedures: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Special protective equipment for firefighters: 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. 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:	Wipe up or scrape up and contain for salvage or disposal. 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. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.

See sections: 7, 8, 11, 12 and 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Do not get on skin or clothing. Do not swallow. Do not get in eyes. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Conditions for safe storage:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Do not store with the following product types:	Strong oxidizing agents.
Unsuitable materials for containers:	Do not store in or use iron or steel containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable

Component	Regulation	Type of listing	value
Methyl Ethyl Ketoxime	**DOW IHG**	**TWA**	**0.15ppm**
	Further information: Skin Sensitizer		
	US WEEL	**TWA**	**10ppm**
	Further information: DSEN: Dermal Sensitization Notation		

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.
The following substance(s), which have Occupational Exposure Limit(s) (OEL), may be formed during handling or processing:
Methyl ethyl ketoxime

Exposure controls

Engineering Controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may

be necessary for some operations.

Individual protection measures

Respiratory protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge.
Eye/face protection:	Use safety glasses (with side shields)
Skin protection:	Hand protection: Use gloves chemically resistant to the material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl Rubber, Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Other protection:	Wear clean, body-covering clothing.
Skin and body protection:	Skin should be washed after contact.
Respiratory protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements of guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators:

Organic vapor cartridge with a particulate pre-filter.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste
Color:	colorless
Odor:	slight
Odor Threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not classified as a flammability hazard
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	Not applicable
Relative vapor density:	No data available
Relative density:	1.04
Solubility./(ies)	
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity	

Viscosity, dynamic:	Not applicable
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Molecular weight:	No data available
NOTE:	The physical data presented above are typical values and should not be construed as a specification

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.
Conditions to avoid:	Do not expose to temperatures above 212 °F/100 °C. Exposure to moisture
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Can include and are not limited to: Formaldehyde. Methyl Ethyl Ketoxime

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact
Ingestion
Eye contact

Acute toxicity:
(represents short term exposures with immediate effects – no chronic/delayed effects known unless otherwise noted)

Product:

Acute oral toxicity:	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. As product: Single dose oral LD50 has not

	been determined. Based on information for component(s): LD50, Rat, > 5,000 mg/kg Estimated.
Acute dermal toxicity:	Prolonged skin contact is unlikely to result in absorption of harmful amounts. As product: The dermal LD50 has not been determined. For this family of materials: LD50, Rabbit, > 2,000 mg/kg Estimated.
Acute inhalation toxicity:	Brief exposure (minutes) is not likely to cause adverse effects. Vapor from heated material may cause respiratory irritation. As product: The LC50 has not been determined.
Skin corrosion/irritation	Based on information for component(s): Prolonged exposure not likely to cause significant skin irritation.
Serious eye damage/eye irritation	Based on information for component(s): May cause slight temporary eye irritation. Corneal injury is unlikely. May cause mild eye discomfort.

Sensitization
For **skin sensitization**:
Contains component(s) which did not cause allergic skin sensitization in guinea pigs.
For **respiratory sensitization:**
No relevant information found.

Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects – no immediate effects known unless otherwise noted)

Specific Target Organ Systemic Toxicity (Repeated Exposure)	Contains component(s) which have been reported to cause effects on the following organs in animals: **Blood.**
Carcinogenicity	During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver

tumour rates.

Teratogenicity — Contains component(s) which did not cause birth defects or any other fetal effects in lab animals.

Reproductive toxicity — Contains component(s) which did not interfere with reproduction in animal studies.

Mutagenicity — In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity studies in animals were negative for component(s) tested.

COMPONENTS INFLUENCING TOXICOLOGY:

2-Butanone, O,O',O''-(methylsilylidyne)trioxime Acute inhalation toxicity
The LC50 has not been determined.

Vinyltri (methylethylketoxime) silane Acute inhalation toxicity
The LC50 has not been determined.

Methyltri(ethylmethylketoxime)silane isomers and oligomers Acute inhalation toxicity
The LC50 has not been determined.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

2-Butanone, O,O',O''-(methylsilylidyne)trioxime
Acute toxicity to fish
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
For the hydrolysis product(s)
LC50, Oncorhynchus mykiss (rainbow trout), Static, 96 Hour, > 120 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates
For the hydrolysis product(s)
EC50, Daphnia magna (Water flea), static test, 48 Hour, > 120 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants
For the hydrolysis product(s)
EC50, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 94 mg/l, OECD Test Guideline 201
For the hydrolysis product(s)

NOEC, Selenastrum capricornutum (green algae), Static, 72 Hour, Growth rate, 30 mg/l, OECD Test Guideline 201

Chronic toxicity to fish
NOEC, Oryzias latipes (Orange-red killifish), flow-through test, 14 d, 50 mg/l

Chronic toxicity to aquatic invertebrates
NOEC, Daphnia magna, semi-static test, 21 d, > 100 mg/l

Vinyltri (methylethylketoxime) silane Acute toxicity to fish
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 120 mg/l, OECD Test Guideline 203 LC50, Oryzias latipes (Orange-red killifish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

Methyltri(ethylmethylketoxime)silane isomers and oligomers
Acute toxicity to fish
No relevant data found.

Persistence and degradability

2-Butanone, O,O',O''-(methylsilylidyne)trioxime
Biodegradability: Based on information for a similar material: This material rapidly hydrolyzes to products that are either readily or ultimately biodegradable.
10-day Window: Fail
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

Vinyltri (methylethylketoxime) silane
Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
10-day Window: Fail
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301A
Stability in Water (1/2-life)
, DT50, < 1 min, Half-life Temperature 2 °C, OECD Test Guideline 111

Methyltri(ethylmethylketoxime)silane isomers and

oligomers Biodegradability: No relevant data found.

Bioaccululative potential

2-Butanone, O,O',O''-(methylsilylidyne)trioxime
Bioaccumulation: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).
Partition coefficient: n-octanol/water(log Pow): 11.2

Vinyltri (methylethylketoxime) silane
Bioaccumulation: No relevant data found.

Methyltri(ethylmethylketoxime)silane isomers and oligomers
Bioaccumulation: No relevant data found.

Mobility in soil
No data available

2-Butanone, O,O',O''-(methylsilylidyne)trioxime
No relevant data found.

Vinyltri (methylethylketoxime) silane
No relevant data found.

Methyltri(ethylmethylketoxime)silane isomers and oligomers
No relevant data found.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Resource Conservation and Recovery Act (RCRA):

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INTENDED CONDITION AS DESCRIBED IN SDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destructive device. For additional information, refer to Handling & Storage Information, SDS Section 7 - Stability & Reactivity Information, SDS Section 10 -- Regulatory Information, SDS Section 15.

Treatment and disposal methods of used packaging:	Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

SECTION 14. TRANSPORT CONSIDERATIONS

DOT	Not regulated for transport
Classification for SEA transport (KMO-IMDG)	Not regulated for transport
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk
Classification for AIR transport (IATA/ICAO):	Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through and authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the aterial.

SECTION 15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

SARA 311/312 Hazards:	Serious eye damage or eye irritation Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure)
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.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

Calculated RQ exceeds reasonably attainable upper limit.

Components	CASRN	RW (RCRA Code)

Methanol	**67-56-1**	**5000 lbs RQ**
Methanol	**67-56-1**	**100 lbs RQ (F003)**
Hexane	**110-54-3**	**5000 lbs RQ**

US State Regulations

Pennsylvania Right To Know

Dimethyl siloxane, hydroxyl-terminated	70131-67-8
Silicon dioxide	7631-86-9
Butanone, O, O'O" – (methylsilylidyne)trioxime	22984-54-9

California Prop 65 WARNING: This product can expose you to chemicals including Hexane, Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

United States TSCA Inventory (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S> Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

Hazard Rating System

NFPA:

Health	Flammability	Instability
2	1	0

HMIS:

Health	Flammability	Physical Hazard
2*	1	0

***=Chronic Effects (See Hazards Identification)**

Legend

Dow IHG	**Dow Industrial Hygiene Guideline**
TWA	**Time weighted average**

US WEEL	USA Workplace Environmental Exposure Levels (WEEL)

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

JIT SILICONES PLUS urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.