

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)  
Date of Issue: 22/04/2024

Version: 1.0

## SECTION 1: IDENTIFICATION

### 1.1. GHS Product Identifier

Product Form: Mixture

Product Name: MED-1511

Synonyms: Silicone Adhesive

### 1.2. Recommended Use Of The Chemical And Restrictions On Use

Use Of The Substance/Mixture: For professional use only.

Uses Advised Against: No additional information available.

### 1.3. Supplier's Details

Customer

NuSil Technology LLC

1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

[productstewardship@avantorsciencesgcc.com](mailto:productstewardship@avantorsciencesgcc.com)

[www.nusil.com](http://www.nusil.com)

### 1.4. Emergency Phone Number

Emergency Number

: 800-424-9300 CHEMTREC (in US)

+1 703-527-3887 CHEMTREC (International and Maritime)

001-803-017-9114

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-ID)

Skin Corr. 1B

H314

Eye Dam. 1

H318

Repr. 2

H361

Aquatic Chronic 3

H412

Full text of hazard classes and H-statements : see section 16

### 2.2. GHS Label Elements, Including Precautionary Statements

#### GHS-ID Labeling

Hazard Pictograms (GHS-ID)

:



GHS05



GHS08

Signal Word (GHS-ID)

: Danger

Hazard Statements (GHS-ID)

: H314 - Causes severe skin burns and eye damage.

H361 - Suspected of damaging fertility or the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-ID)

: P203 - Obtain, read and follow all safety instructions before use.

P260 - Do not breathe dusts or mists.

P264+P265 - Wash hands forearms thoroughly after handling.

Do not touch eyes.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

gloves.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P361+P354 - IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 - Get emergency medical help immediately.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-ID)

No additional information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product Identifier	%	GHS UN classification
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9	5 - 10	Acute toxicity (oral) Category 4, H302 Skin corrosion/irritation Category 1B, H314 Serious eye damage/eye irritation Category 1, H318
Glycidoxypropyltrimethoxysilane	(CAS-No.) 2530-83-8	1 - 5	Acute toxicity (dermal), Category 5, H313 Serious eye damage/eye irritation Category 1, H318 Hazardous to the aquatic environment – Acute Hazard Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard Category 3, H412
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 0,25	Flammable liquids Category 3, H226 Reproductive toxicity Category 2, H361 Hazardous to the aquatic environment – Chronic Hazard Category 1, H410

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Dibutyltin diacetate	(CAS-No.) 1067-33-0	< 0.1	Skin corrosion/irritation Category 1B, H314 Serious eye damage/eye irritation Category 1, H318 Skin sensitization, Category 1B, H317 Germ cell mutagenicity Category 2, H341 Reproductive toxicity Category 1B, H360 Specific target organ toxicity – Single exposure, Category 1, H370 Specific target organ toxicity – Repeated exposure, Category 1, H372 Hazardous to the aquatic environment – Chronic Hazard Category 1, H410
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Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of Necessary First-Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most Important Symptoms/Effects, Acute and Delayed

General: Causes severe skin burns and eye damage. Suspected of damaging fertility.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Causes severe irritation which will progress to chemical burns.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

### 4.3. Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam.

Unsuitable Extinguishing Media: Reacts with water.

### 5.2. Specific Hazards Arising From the Chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May hydrolyze with water to form acetic acid. Reacts with water and moisture in air liberating methanol.

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### 5.3. Special Protective Actions for Fire-Fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Formaldehyde. Silicon oxides. Tin oxides.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapour, mist or spray.

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Reacts with water and moisture in air liberating methanol.

Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapours, mist, spray. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in original container or corrosive resistant and/or lined container. **Incompatible Materials:** Strong acids, strong bases, strong oxidisers. Water. Alcohols.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV) and Indonesia.

Tin organic compounds		
USA ACGIH	ACGIH OEL TWA	0,1 mg/m <sup>3</sup>
USA ACGIH	ACGIH OEL STEL	0,2 mg/m <sup>3</sup>
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
Indonesia	NAB OEL TWA	0,1 mg/m <sup>3</sup>
Indonesia	Chemical category	skin notation, A4 - not classifiable as a human carcinogen

### Biological Limits

No additional information available

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

### 8.3. Individual Protection Measures, Such as Personal Protective Equipment (PPE)

**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



**Materials for Protective Clothing** : Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection** : Wear protective gloves.

**Eye and Face Protection** : Chemical safety goggles and face shield.

**Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information** : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** : Liquid

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Appearance	: Colourless
Odour	: Odourless
Odour Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: > 135 °C (275 °F)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability	: No data available
Vapour Pressure	: No data available
Relative Vapour Density at 20 °C	: No data available
Relative Density	: 1,12
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

### 9.2. Other Information

VOC content : < 1 %

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

May hydrolyze with water to form acetic acid. Reacts with water and moisture in air liberating methanol.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidisers. Water. Alcohols.

### 10.6. Hazardous Decomposition Products:

From hydrolysis: Acetic acid. Methanol. Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Tin oxides. Will decompose above 150 °C (>300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitiser. Formaldehyde can also cause respiratory and eye irritation.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

Likely Routes of Exposure: Dermal, Eye Contact, Inhalation, Oral

Acute Toxicity (Oral): Not classified (Based on available data, the classification criteria are not met)

Acute Toxicity (Dermal): Not classified (Based on available data, the classification criteria are not met)

Acute Toxicity (Inhalation): Not classified (Based on available data, the classification criteria are not met)

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Silanetriol, ethyl-, triacetate (17689-77-9)	
LD50 Oral Rat	1460 mg/kg
Glycidoxypropyltrimethoxysilane (2530-83-8)	
LD50 Oral Rat	8025 mg/kg
LD50 Dermal Rabbit	4250 mg/kg
LC50 Inhalation Rat	> 5,3 mg/l/4h
Octamethylcyclotetrasiloxane (556-67-2)	
LD50 Oral Rat	> 4800 mg/kg (No mortality)
LD50 Dermal Rat	> 2375 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 2,5 ml/kg (No mortality)
LC50 Inhalation Rat	36 mg/l/4h

Skin Corrosion/Irritation: Causes severe skin burns.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not classified (Based on available data, the classification criteria are not met)

Germ Cell Mutagenicity: Not classified (Based on available data, the classification criteria are not met).

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified (Based on available data, the classification criteria are not met)

Specific Target Organ Toxicity (Repeated Exposure): Not classified (Based on available data, the classification criteria are not met)

Aspiration Hazard: Not classified (Based on available data, the classification criteria are not met)

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Hazardous To The Aquatic Environment, Short-Term (Acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous To The Aquatic Environment, Long-Term (Chronic) : Harmful to aquatic life with long lasting effects.

Silanetriol, ethyl-, triacetate (17689-77-9)	
EC50 Crustacea	6000 mg/l
Glycidoxypropyltrimethoxysilane (2530-83-8)	
LC50 Fish	55 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)
EC50 Crustacea	710 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 Algae	350 mg/l Exposure time: 96 h - Species: Pseudokirchnerella subcapitata)
NOEC Chronic Crustacea	100 mg/l

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Dibutyltin diacetate (1067-33-0)	
NOEC Acute	0,65 mg/l
NOEC Chronic Crustacea	0,32 mg/l (48-Hour EC50 Daphnia magna)
Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish	> 22 µg/l
NOEC Chronic Fish	0,0044 mg/l

### 12.2. Persistence and Degradability

MED-1511	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

MED-1511	
Bioaccumulative Potential	Not established.

Dibutyltin diacetate (1067-33-0)	
Partition coefficient n-octanol/water (Log Pow)	3,39 at 20 °C (at pH 5)
Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish	12400
Partition coefficient n-octanol/water (Log Pow)	6,488 at 25,1 °C

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

Ozone	: Not classified (Based on available data, the classification criteria are not met)
Other Information	: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### In Accordance with UN RTDG, IMDG, and IATA




UN RTDG	IMDG	IATA
<b>14.1. UN Number</b>		
1760	1760	1760
<b>14.2. UN Proper Shipping Name</b>		
CORROSIVE LIQUID, N.O.S. (Silanetriol, ethyl-, triacetate)	CORROSIVE LIQUID, N.O.S. (Silanetriol, ethyl-, triacetate)	CORROSIVE LIQUID, N.O.S. (Silanetriol, ethyl-, triacetate)



# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

UN RTDG	IMDG	IATA
<b>14.3. Transport Hazard Class</b>		
8	8	8
		
<b>14.4. Packing Group</b>		
II	II	II
<b>14.5. Environmental Hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

### 14.6. Special Precautions For User

No additional information available

### 14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1. International Regulatory Lists

All components in this mixture are listed on the following inventories, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation: (AICS, CA DSL, KR ECL, EINECS, ELINCS, JP ENCS, CN IECSC, MX INSQ, JP ISHL, KECI, CA NDSL, EU NLP, NZIoC, PICCS, JP PDSCL, JP PRTR, US TSCA, TCSI)

### 15.2. International Agreements

Octamethylcyclotetrasiloxane (556-67-2)

This chemical is subject to the International Convention for the Prevention of Pollution from Ships (MARPOL)

### 15.3. Indonesia Regulations

No additional information available

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Creation Date	: 22/04/2024
Revision Date	: Not applicable
Data Sources	: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.
Other Information	: According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### GHS Full Text Phrases:

Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Indication of Changes: No additional information available

### Abbreviations and Acronyms:

ACGIH – American Conference of Governmental Industrial Hygienists	Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
AIHA – American Industrial Hygiene Association	MARPOL – International Convention for the Prevention of Pollution
ATE - Acute Toxicity Estimate	MFAG-No - Medical First Aid Guide for Use in Accidents Involving Dangerous Goods
BCF - Bioconcentration Factor	NOAEL - No-Observed Adverse Effect Level
BEI - Biological Exposure Indices (BEI)	NOEC - No-Observed Effect Concentration
BOD – Biochemical Oxygen Demand	NTP – National Toxicology Program
CAS No. - Chemical Abstracts Service Number	OEL - Occupational Exposure Limits
COD – Chemical Oxygen Demand	OSHA – Occupational Safety and Health Administration
EC50 - Median Effective Concentration	pH – Potential Hydrogen
EmS-No. (Fire) - IMDG Emergency Schedule Fire	SADT - Self Accelerating Decomposition Temperature
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	SDS - Safety Data Sheet
ErC50 - EC50 in Terms of Reduction Growth Rate	SRCL - Specifically Regulated Carcinogen List
ERG code (IATA) - Emergency Response Drill Code as found in the International Civil Aviation Organization (ICAO)	STEL - Short Term Exposure Limit
GHS – Globally Harmonized System of Classification and Labeling of Chemicals	ThOD – Theoretical Oxygen Demand
HCCL - Hazard Communication Carcinogen List	TLM - Median Tolerance Limit
IARC - International Agency for Research on Cancer	TLV - Threshold Limit Value
IATA - International Air Transport Association	TPQ - Threshold Planning Quantity
IBC – International Bulk Chemical Code	TWA - Time Weighted Average
IMDG - International Maritime Dangerous Goods	UN – United Nations
LC50 - Median Lethal Concentration	UN RTDG – United Nations Recommendations on the Transport of Dangerous Goods
LD50 - Median Lethal Dose	VOC – Volatile Organic Compounds
LOAEL - Lowest Observed Adverse Effect Level	WEEL - Workplace Environmental Exposure Levels
LOEC - Lowest-Observed-Effect Concentration	
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	
Log Kow - Octanol/water Partition Coefficient	

### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)  
AU\_WES: Australia WES  
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)  
EC\_RAR: European Commission Renewal Assessment Report  
EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits  
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports  
ECHA\_API: European Chemicals Agency API  
ECHA\_RAC: ECHA Committee for Risk Assessment  
EFSA: European Food Safety Authority  
EPA: U.S. Environmental Protection Agency  
EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)  
EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection

FOOD\_JOURN: Food Research Journal (1956)  
IARC: The International Agency for Research on Cancer  
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles  
IUCLID: International Uniform Chemical Information Database  
JAPAN\_GHS: Japan GHS Basis for Classification Data  
JP\_J-CHECK: Japan J-Check  
KR\_NIER: South Korea National Institute of Environmental Research Evaluations  
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme  
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)  
NLM\_CIP: National Library of Medicine ChemID plus database  
NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank  
NLM\_PUBMED: National Library of Medicine PubMed database

# MED-1511

## Safety Data Sheet

According to Rule No.04/BIM/PER/1/2014 on Technical Guidance and Guidelines on Implementation Oversight of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Agency)

EPA\_HP: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database

OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

*The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.*

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