

CV1-1148

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 07/07/2022 Date of Issue: 06/30/2014

avantor™

NuSil™

Version 4.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name CV1-1148
Synonyms Silicone Dispersion

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency Telephone Number

Emergency Number 800-424-9300 CHEMTREC (in US)
+1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Flam. Liq. 2 H225
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
STOT SE 3 H336
STOT RE 2 H373
Asp. Tox. 1 H304
Aquatic Chronic 2 H411

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS02

GHS07

GHS08

GHS09

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H373 - May cause damage to organs (blood) through

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Precautionary Statements (GHS-US)

prolonged or repeated exposure (oral)
H411 - Toxic to aquatic life with long lasting effects
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection.
P301+P310 - If swallowed: Immediately call a poison center or doctor.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see Section 4 on this SDS).
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use Water spray, fog, carbon dioxide, foam, dry chemical to extinguish.
P391 - Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

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

2.4. Unknown Acute Toxicity (GHS-US)

No additional information available

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SECTION 3: Composition/Information On Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	GHS-US Classification
Solvent naphtha, petroleum, light aliphatic	(CAS-No.) 64742-89-8	30 - 60	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	(CAS-No.) 22984-54-9	3 - 7	Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT RE 2, H373
Carbon black	(CAS-No.) 1333-86-4	1 - 5	Not classified
1-Propanamine, 3-(triethoxysilyl)-	(CAS-No.) 919-30-2	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	(CAS-No.) 1760-24-3	< 1	Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 2, H401
Dibutyltin dilaurate	(CAS-No.) 77-58-7	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 1.6

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

First-aid Measures General

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

First-aid Measures After Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. When symptoms occur: go into open air and ventilate suspected area.

First-aid Measures After Skin Contact	Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.
First-aid Measures After Eye Contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
First-aid Measures After Ingestion	Do NOT induce vomiting. Place affected person on their side. Immediately call a POISON CENTER or doctor/physician.
4.2. Most Important Symptoms and Effects Both Acute and Delayed Symptoms/Injuries	May be fatal if swallowed and enters airways. May cause drowsiness and dizziness. Causes serious eye irritation. Causes skin irritation. Skin sensitization. May cause damage to organs (blood) through prolonged or repeated exposure (oral). High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.
Symptoms/Injuries After Inhalation	Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
Symptoms/Injuries After Skin Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Eye Contact	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Symptoms/Injuries After Ingestion	May cause damage to organs (blood) through prolonged or repeated exposure (Oral).
Chronic Symptoms	

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

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 : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media : Do not use a heavy water stream. A heavy water stream may spread burning liquid. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Highly flammable liquid and vapor.
Explosion Hazard May form flammable or explosive vapor-air mixture.
Reactivity Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire
Firefighting Instructions Exercise caution when fighting any chemical fire.
Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

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Hazardous Combustion Products	Carbon oxides (CO, CO ₂). Formaldehyde. Nitrogen oxides. Silicon oxides.
Other Information	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Use special care to avoid static electric charges. Do not get in eyes, on skin, or on clothing. Avoid breathing (vapor, mist, spray). Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).
Emergency Procedures Evacuate unnecessary personnel. Evacuate unnecessary personnel. Stop leak if safe to do so.

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. Eliminate ignition sources first, then ventilate the area.

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

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

Methods for Cleaning Up Use only non-sparking tools. Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic 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 Handle empty containers with care because residual vapors are flammable. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors.

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Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharge. Use only non-sparking tools.

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. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions

Store in a dry, cool and well-ventilated place. Storage areas should be inspected regularly by an individual(s) trained to identify potential hazards and ensure that all safety control measures are being properly implemented. Any identified hazards should be addressed immediately. 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 a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible Materials

Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

For applications requiring low outgassing and minimal volatile condensables. For professional use only.

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), or OSHA (PEL).

Carbon black (1333-86-4)		
USA ACGIH	ACGIH OEL TWA	3 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL TWA	3.5 mg/m ³ 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA OSHA	OSHA PEL TWA	3.5 mg/m ³
Tin organic compounds		
USA ACGIH	ACGIH OEL TWA	0.1 mg/m ³
USA ACGIH	ACGIH OEL STEL	0.2 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
USA NIOSH	NIOSH REL TWA	0.1 mg/m ³ (except Cyhexatin)
USA OSHA	OSHA PEL TWA	0.1 mg/m ³

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. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

Personal Protective Equipment



Materials For Protective Clothing

Chemically resistant materials and fabrics. Wear fire/flamm resistant/retardant clothing.

Hand Protection

Wear protective gloves.

Eye And Face Protection

Chemical safety goggles.

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
Appearance	Black
Odor	Solvent
Odor 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	125.6 °C (258 °F)
Flash Point	8.8 °C (48 °F)
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	Not applicable
Vapor Pressure	No data available
Relative Vapor Density at 20°C	No data available
Relative Density	No data available
Specific Gravity	> 1 (water = 1)
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available

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9.2. Other Information

VOC Content 30 – 60 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability

Highly flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Nitrogen oxides. Silicon oxides. Will decompose above 150 °C (>300° F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity (Oral) Not classified

Acute Toxicity (Dermal) Not classified

Acute Toxicity (Inhalation) Not classified

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	3000 mg/kg
Carbon black (1333-86-4)	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m ³ (Exposure time: 4 h)
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
LD50 Oral Rat	2295 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	1.49 – 2.44 mg/l/4h
2-Butanone, O,O',O''-(methylsilyldyne)trioxime (22984-54-9)	
LD50 Oral Rat	2463 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
1-Propanamine, 3-(triethoxysilyl)- (919-30-2)	
LD50 Oral Rat	1570 mg/kg
LD50 Dermal Rabbit	4290 mg/kg
LC50 Inhalation Rat	> 7.35 mg/l/4h (No mortality observed)
LC50 Inhalation Rat	> 5 ppm (Exposure time: 6 h)
Dibutyltin dilaurate (77-58-7)	
LD50 Oral Rat	175 mg/kg

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LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	0.075 mg/l/4h
Skin Corrosion/Irritation	Causes skin irritation.
Serious Eye Damage/Irritation	Causes serious eye irritation.
Respiratory or Skin Sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Carbon black (1333-86-4)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (Repeated Exposure)	May cause damage to organs (blood) through prolonged or repeated exposure (oral).
Aspiration Hazard	May be fatal if swallowed and enters airways.
Symptoms/Injuries After Inhalation	High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.
Symptoms/Injuries After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	May cause damage to organs (blood) through prolonged or repeated exposure (Oral).

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General

Toxic to aquatic life with long lasting effects.

Carbon black (1333-86-4)	
EC50 Crustacea	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)	
LC50 Fish	597 mg/l (Species: Danio rerio)
EC50 Crustacea	81 mg/l
ErC50 Algae	8.8 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
NOEC Chronic Fish	344 mg/l
NOEC Chronic Crustacea	35 mg/l
NOEC Chronic Algae	3.1 mg/l (Pseudokirchnerella subcapitata Exposure time: 96h)
2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)	
EC50 Crustacea	120 mg/l (Exposure time: 48h - Species: Daphnia magna)
1-Propanamine, 3-(triethoxysilyl)- (919-30-2)	
LC50 Fish	934 mg/l (Danio rerio)
EC50 Crustacea	331 mg/l
ErC50 Algae	1000 mg/l (Scenedesmus subspicatus)

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EmS-No. (Spillage) S-E
Marine Pollutant Marine pollutant
MFAG Number 128

14.3. In Accordance with IATA

Proper Shipping Name PETROLEUM DISTILLATES, N.O.S.
Packing Group II
Identification Number UN1268
Hazard Class 3
Label Codes 3
ERG Code (IATA) 3H



SECTION 15: Regulatory Information

15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

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SARA Section 311/312 Hazard Classes	Health hazard - Aspiration hazard Health hazard - Respiratory or skin sensitization Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Physical hazard - Flammable (gases, aerosols, liquids, or solids)

15.2. US State Regulations

Carbon black (1333-86-4)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups	
Carbon black (1333-86-4)	
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List RTK - U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Special Health Hazards Substances List U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - Illinois - Toxic Air Contaminants U.S. - Tennessee - Occupational Exposure Limits - TWAs U.S. - Vermont - Permissible Exposure Limits - TWAs U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S. - Washington - Permissible Exposure Limits - TWAs U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) U.S. - Washington - Permissible Exposure Limits - STELs	

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U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Maine - Chemicals of Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

2-Butanone, O,O',O''-(methylsilylydyne)trioxime (22984-54-9)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

1-Propanamine, 3-(triethoxysilyl)- (919-30-2)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Tin organic compounds

U.S. - Minnesota - Hazardous Substance List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Vermont - Permissible Exposure Limits - Skin Designations
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - Skin Designations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Occupational Exposure Limits - Skin Designations
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Occupational Exposure Limits - Skin Designations
U.S. - Minnesota - Permissible Exposure Limits - Skin Designations
U.S. - Minnesota - Permissible Exposure Limits - TWAs

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U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

Dibutyltin dilaurate (77-58-7)

U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision 07/07/2022

Revision

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Muta. 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B

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Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3, Narcosis
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H301	Toxic if swallowed
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

NFPA Health Hazard

3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA Fire Hazard

3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

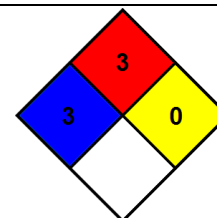
NFPA Reactivity Hazard

0 - Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating
Health

3 Serious Hazard

* Chronic - Chronic (long-term) health effects may result from repeated overexposure



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Flammability
Physical

3 Serious Hazard
0 Minimal Hazard

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