Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue

Revision date: 02/27/2020

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Version: 2.1

SECTION 1: Identification

1.1. Product identifier

Product Form Product Name Mixture CV1-1142

11/05/2018

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 ehs@nusil.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

Eye Irrit. 2A H319 Skin Sens. 1 H317 Repr. 1B H360 STOT RE 2 H373 Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)	Danger
Hazard statements (GHS-US)	H317 - May cause an allergic skin reaction
	H319 - Causes serious eye irritation
	H360 - May damage fertility or the unborn child
	H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary statements	P201 - Obtain special instructions before use.
(GHS-US)	P202 - Do not handle until all safety precautions have been read and understood.
	P260 - Do not breathe vapors, spray, mist.
	P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
	P272 - Contaminated work clothing must not be allowed out

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of the workplace.

P280 - Wear eye protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see Section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other hazards

Other hazards not contributing to the classification

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

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	(CAS-No.) 68909-20-6	< 20	Not classified
2-Butanone, O,O',O''- (methylsilylidyne)trioxime	(CAS No) 22984-54-9	< 15	Eye Irrit. 2A, H319 Skin Sens. 1B, H317 STOT RE 2, H373
N-[3-(Trimethoxysilyl)propyl]- 1,2-ethanediamine	(CAS No) 1760-24-3	<]	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 2, H401
Dibutyltin dilaurate	(CAS No) 77-58-7	<]	Skin Corr. 1C, H314 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 16

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 where possible).
First-aid measures after inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Rinse cautiously 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	Rinse mouth. Do NOT induce vomiting. Obtain medical
ingestion	attention.
4.2. Most important symptom	ns and effects, both acute and delayed
Symptoms/injuries	Causes serious eye irritation. Skin sensitization. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	Prolonged exposure may cause irritation.
Symptoms/injuries after skin contact	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	Ingestion may cause adverse effects.
Chronic symptoms	May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

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	Water spray, dry chemical, alcohol-resistant foam, carbon dioxide.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.
5.2. Special hazards arising from	m the substance or mixture
Fire hazard	Not considered flammable but may burn at high temperatures.
Explosion hazard Reactivity	Product is not explosive. Hazardous reactions will not occur under normal conditions.

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5.3. Advice for firefighters

Precautionary measures fire Firefighting instructions Protection during firefighting Exercise caution when fighting any chemical fire.
Use water spray or fog for cooling exposed containers.
Do not enter fire area without proper protective equipment, including respiratory protection.

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
	vapor, mist or spray.
6.1.1.For non-emergency person	nel
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.

6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

migration and entry into sewers or streams. Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Contain any spills with dikes or absorbents to prevent

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

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 contact with skin, eyes and clothing. Obtain special instructions before use. Do not handle until all safety
	precautions have been read and understood. Do not breathe vapors, spray, mist.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for safe store	ige, including any incompatibilities
Technical measures	Comply with applicable regulations.
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.
Incompatible products	Strona acids, strona bases, strona oxidizers.

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7.3. Specific end use(s)

For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions. 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).

1 1				
DibutyItin dilaurate (77-58-7)				
USA ACGIH	ACGIH chemic	cal category	Skin - potential significant contribution to overall exposure by the cutaneous route,A4 - not classifiable as a human carcinogen	
8.2. Exposu	re controls			
Appropriate controls	engineering	available Ensure ad	cy eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure. dequate ventilation, especially in confined areas. I national/local regulations are observed.	
Personal prot equipment	rective		Protective clothing. Protective goggles. Insufficient on: wear respiratory protection.	
Materials for clothing	protective	Chemico	ally resistant materials and fabrics.	
Hand protect Eye protectic Skin and bod Respiratory p	on ly protection	Chemico Wear suit If exposu approve inadeque where ex	otective gloves. al safety goggles. rable protective clothing. re limits are exceeded or irritation is experienced, d respiratory protection should be worn. In case of ate ventilation, oxygen deficient atmosphere, or sposure levels are not known wear approved ry protection.	
Other inform	ation		ng, 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 :	Colorless
Color :	Clear
Odor :	Characteristic
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 :	No data available

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: > 135 °C (> 275 °F)
: No data available
: >1
: No data available
ater : No data available
: No data available
< 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Hazardous polymerization 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 oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

2-Butanone, O,O',O''-(methylsily	lidyne)trioxime (22984-54-9)	
LD50 oral rat	2463 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
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 (mg/l)	> 1.49 mg/l/4h	
Dibutyltin dilaurate (77-58-7)		
LD50 dermal rat	> 2 g/kg	
Skin corrosion/irritation	Not classified	
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	
Reproductive toxicity	: May damage fertility or the unborn child.	
Specific target organ toxicity (sir		
exposure)		
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Specific target organ toxicity (re exposure)	epeated : May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	Prolonged exposure may cause irritation.
Symptoms/injuries after skin contact	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	Ingestion may cause adverse effects.
Chronic symptoms	May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	Not classified.	
2-Butanone, O,O',O"-(meth	ylsilylidyne)trioxime (22984-54-9)	
EC50 Daphnia 1	120 mg/l (Exposure time: 48h - Species: Daphnia magna)	
N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine (1760-24-3)		
LC50 fish 1	597 mg/l (Species: Danio rerio)	
EC50 Daphnia 1	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)	
Dibutyltin dilaurate (77-58-7	7)	
EC50 Daphnia 1	0.463 mg/l (Daphnia magna)	
12.2. Persistence and deg	jradability	
CV1-1142		
Persistence and degradabi	ility Not established.	
Dibutyltin dilaurate (77-58-7	7)	
Persistence and degradability Not readily biodegradable.		
12.3. Bioaccumulative po	tential	
CV1-1142		
Bioaccumulative potential Not established.		
Dibutyltin dilaurate (77-58-7	/)	
Log Pow	4.44	
12.4. Mobility in soil		
No additional information of	available	
12.5. Other adverse effec		

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.

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.

- 14.1. In Accordance with DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- **14.3.** In Accordance with IATA Not regulated for transport

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, or not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

CV1-1142	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
15.2. US State regulations	

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)	
U.S. Tayar Effects Screening Loyals Long Term	

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

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

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

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

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

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

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

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

Dibutyltin dilaurate (77-58-7)

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. - Texas - Effects Screening Levels - Long Term

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

SECTION 16: Other information, including date of preparation or last revision

Revision date
Other information

02/27/2020 This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta. 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
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
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H341	Suspected of causing genetic defects

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	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
NFF	PA health hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard		1 - Must be preheated before ignition
NFPA reactivity		1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HM Heo	IS III Rating alth	2 Moderate Hazard - Temporary or minor injury may occur
Flammability		1 Slight Hazard

Physical 1 Slight Hazard

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