



Nuflex® 331

SECTION 1. IDENTIFICATION

Product Identifier	Nuflex® 331
Other Means of Identification	Exterior Trim Silicone Sealant
Recommended Use	Silicone sealant for exterior siding.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	NUCO Inc., 150 Curtis Dr., Guelph, Ontario, N1K 1N5, Canada, (519) 823-4994, www.sealantcentre.com
Emergency Phone No.	ChemTel Chemical Expert Assistance Hotline, 1-800-255-3924
Date of Preparation	November 29, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Eye irritation - Category 2B; Skin sensitization - Category 1B; Carcinogenicity - Category 2; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:

Warning

Hazard Statement(s):

Causes skin irritation.
May cause an allergic skin reaction.
Causes eye irritation.
Suspected of causing cancer.
May cause damage to organs (blood) through prolonged or repeated exposure if swallowed.

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Use only outdoors or in a well-ventilated area.

Response:

IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice or attention.
If eye irritation persists: Get medical advice or attention.
Take off contaminated clothing and wash it before reuse.
Specific treatment (see supplemental first aid instruction on this label).

Storage:

Store locked up.
Protect from sunlight. Store in a well-ventilated place.

Disposal:

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

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Titanium dioxide	13463-67-7	0.1-1.0	Titanium (IV) oxide	
Carbon black	1333-86-4	0.1-1.0	Carbon	
Octamethylcyclotetrasiloxane	556-67-2	0.1-1.0		
Methyltri(ethylmethylketoxime) silane isomers and oligomers	Not assigned	0.1-1.0		
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	0.1-1.0		
2-Butanone, O,O',O''-(ethenylsilyldyne)trioxime	2224-33-1	1.0-5.0	Vinyl tri (methylethylketoxime)silane	

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2-Butanone, O,O',O''-(methylsilyldiene)trioxime	22984-54-9	3.0-7.0	Methyl tri (methylethylketoxime)silane	
Silica 2482, hydrophobic	7631-86-9	3.0-7.0	Amorphous Silica	
Calcium carbonate	1317-65-3	10.0-30.0	Limestone	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

If exposed or concerned, get medical advice or attention. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Can ignite if strongly heated.

In a fire, the following hazardous materials may be generated: carbon oxides; silicon oxides; very toxic, flammable formaldehyde.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Review Section 13 (Disposal Considerations) of this safety data sheet.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Avoid breathing in this product. Prevent skin contact. Do not get in eyes. Only use where there is adequate ventilation. Prevent uncontrolled release of product.

Conditions for Safe Storage

Store in an area that is: well-ventilated, cool, dry, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in a closed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	10 ppm	Not established	Not established	Not established	10 ppm	Not established
Silica 2482, hydrophobic	Not established	Not established	10 mg/m3	Not established	Not established	Not established
Calcium carbonate	Not established	Not established	15 mg/m3	Not established	Not established	Not established
Octamethylcyclotetrasiloxane	10 ppm	15 ppm	10 ppm	Not established	Not established	Not established
Carbon black	3 mg/m3 A3	Not established	3.5 mg/m3	Not established	Not established	Not established
Titanium dioxide	10 mg/m3 A4	Not established	15 mg/m3	Not established	Not established	Not established
2-Butanone, O,O',O''-(ethenylsilyldiyl)trioxime	Not established	Not established	Not established	Not established	Not established	Not established
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	Not established	Not established	Not established	Not established	Not established	Not established

Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

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Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: neoprene rubber, nitrile rubber, Silver Shield®.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	viscous paste. Particle Size: Not available
Odour	Aromatic
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Boiling Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.04
Solubility	Not available in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Volatile Organic Content	26 g/L, <3% w/w CARB Method 310

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Reacts in the presence of oxidizing agents.

Conditions to Avoid

Water, moisture or humidity. Incompatible materials.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).

Hazardous Decomposition Products

Silicon oxides
Carbon oxides
Metal oxides.

Very toxic, flammable formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Butanone, O,O',O''-(methylsilylidyne)trioxime		2463 mg/kg (rat)	> 2000 mg/kg (rat)
Silica 2482, hydrophobic	> 2.08 mg/L (rat) (dust)	> 3300 mg/kg (rat)	> 5000 mg/kg (rabbit)
Calcium carbonate		> 6450 mg/kg (rat)	
Octamethylcyclotetrasiloxane	36 mg/L (rat) (4-hour exposure)	1540 mg/kg (rat)	
Carbon black	6750 mg/L (rat) (4-hour exposure)		
Titanium dioxide	> 6820 mg/kg (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg (rabbit)
2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime		> 2000 mg/kg (male rat)	> 2009 mg/kg (rat)

Skin Corrosion/Irritation

May cause very mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause very mild irritation based on information for closely related chemicals.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

May be harmful based on information for closely related materials.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

May cause an allergic reaction (skin sensitization) based on information for closely related chemicals. May cause severe asthma-like symptoms (respiratory sensitization) based on information for closely related chemicals.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	Not Listed	Not designated	Not Listed	Not Listed
Silica 2482, hydrophobic	Group 3	Not Listed	Not Listed	Not Listed
Calcium carbonate	Not Listed	Not designated	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	Not Listed	Not Listed	Not Listed	Not Listed
Carbon black	Group 2B	A3	Not Listed	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed

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2-Butanone, O,O',O''-(ethenylsilyldyne)trioxime	Not Listed	Not designated	Not Listed	Not Listed
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	Not Listed	Not designated	Not Listed	Not Listed

Conclusions cannot be drawn from the limited studies available.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water.

Treat waste in an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

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SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

California Proposition 65: This product contains a chemical that is below California Proposition 65's "safe harbor level" as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label. Compounds are inextricably bound within the sealant matrix.

New Jersey Right To Know. (2-Butanone, O,O',O''-(methylsilyldiyl)trioxime). (Silica 2482, hydrophobic). (Calcium carbonate). (Octamethylcyclotetrasiloxane). (Carbon black). (Titanium dioxide)

Dimethyl siloxane, hydroxy terminated

Pennsylvania Right To Know. (2-Butanone, O,O',O''-(methylsilyldiyl)trioxime). (Silica 2482, hydrophobic). (Calcium carbonate). (Octamethylcyclotetrasiloxane). (Carbon black). (Titanium dioxide)

Dimethyl siloxane, hydroxy terminated

SARA Title III - Section 302:

Not applicable.

SARA Title III - Section 311/312:

Acute Health Hazard

Chronic Health Hazard

SARA Title III - Section 313:

Not applicable.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 2	Flammability - 1	Instability - 0
SDS Prepared By	Technical Services Department		
Phone No.	(519) 823-4994		
Date of Preparation	November 29, 2017		
Date of Last Revision	February 05, 2021		
Revision Indicators	Revision 3		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	The information herein is given in good faith, but no warranty, express or implied, is made. Product users should make independent judgements of the suitability of this information to ensure proper use and to protect the health and safety of employees.		

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