



Nuflex® 435 - Watertight Adhesive

SECTION 1. IDENTIFICATION

Product Identifier	Nuflex® 435 - Watertight Adhesive
Other Means of Identification	STP Adhesive
Recommended Use	Sealant and adhesive.
Restrictions on Use	None known.
Manufacturer	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

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin sensitization - Category 1; Reproductive toxicity - Category 1B; Aquatic hazard (Acute) - Category 3; Aquatic hazard (Chronic) - Category 3

Label Elements



Signal Word:
Danger

Hazard Statement(s):

May cause an allergic skin reaction.
May damage fertility or the unborn child.
Harmful to aquatic life with long lasting effects.

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.
Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

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Response:
IF ON SKIN: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Wash contaminated clothing before reuse.

Storage:
Store locked up.

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
Calcium carbonate	1317-65-3	30.0-50.0		
Titanium dioxide	13463-67-7	1.0-5.0		
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	1760-24-3	0.1-1.0		
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	41556-26-7	0.1-1.0		
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	82919-37-7	0.1-1.0		
DIBUTYLTIN DILAURATE	77-58-7	0.1-1.0		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Rinse mouth with water. If exposed or concerned, get medical advice or attention.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

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

Heating increases the release of toxic vapour.

In a fire, the following hazardous materials may be generated: toxic chemicals; silicon oxides; metal oxides; carbon oxides.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Wash hands and skin thoroughly after handling.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: covered. 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

Avoid breathing in this product. Do not swallow. Only use where there is adequate ventilation.

Conditions for Safe Storage

Store in an area that is: well-ventilated, cool, dry, out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Calcium carbonate	Not established	Not established	15 mg/m ³	Not established	Not established	Not established
Titanium dioxide	10 mg/m ³ A4	Not established	15 mg/m ³	Not established	Not established	Not established
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	Not established	Not established	Not established	Not established	Not established	Not established
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	Not established	Not established	Not established	Not established	Not established	Not established

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Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester	Not established	Not established	Not established	Not established	Not established	Not established
DIBUTYL TIN DILAURATE		0.2 mg/m ³ Skin	0.1 mg/m ³ Skin			

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Not required, if used as directed.

Respiratory Protection

Not normally required if product is used as directed. Not usually required when working with small quantities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White viscous paste. Particle Size: Not available
Odour	Alcoholic
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Boiling point/Initial boiling point	Not applicable
Boiling Range	Not applicable
Flash Point	68.6 °C (closed cup)
Evaporation Rate	Not available
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)	Not available
Solubility	Insoluble at 25 °C in water; Moderately soluble in aromatic hydrocarbons (e.g. toluene).
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 800000 centipoises at 25 °C (dynamic)
Other Information	
Physical State	Liquid
Bulk Density	1.33 - 1.39 kg/L
Volatile Organic Content	<30 g/L, <3% w/w CARB 310 Method

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

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Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Prolonged exposure to high temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

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

Not corrosive to metals.

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Likely Routes of Exposure

Skin contact; eye contact.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Irritation

No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Calcium carbonate	Not Listed	Not designated	Not Listed	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
Ethylenediamine, N-(3-(trimethoxysilyl)propyl)-	Not Listed	Not designated	Not Listed	Not Listed
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	Not Listed	Not Listed	Not Listed	Not Listed
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	Not Listed	Not Listed	Not Listed	Not Listed
DIBUTYL TIN DILAURATE	Not Listed	Not Listed	Not Listed	Not Listed

Compounds are inextricably bound in the material matrix.

Key to Abbreviations

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ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

May harm the unborn child.

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

Ecotoxicity

Harmful to aquatic life, based on quantitative structure-activity relationships. (Titanium dioxide). (Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester)

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Titanium dioxide	500 mg/L (Pimephales promelas (fathead minnow); fresh water)	3 mg/L (Daphnia magna (water flea); fresh water; static)		36 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour; fresh water; static)
DIBUTYLTIN DILAURATE		< 1 mg/L (Daphnia magna (water flea); 48-hour)		< 3 mg/L (Desmodesmus subspicatus (algae); 72-hour; fresh water)

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. Store product for disposal as described under Storage in Section 7 of this safety data sheet.

SECTION 14. TRANSPORT INFORMATION

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

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Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

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: 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

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Revision Indicators Revision 1

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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