



Nuflex® 302

SECTION 1. IDENTIFICATION

Product Identifier	Nuflex® 302
Other Means of Identification	General Purpose Silicone Sealant - High Temperature- Red
Recommended Use	Silicone 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
Supplier Identifier	NUCO Inc., 150 Curtis Dr., Guelph, Ontario, N1K 1N5, Canada, (519) 823-4994, www.sealantcentre.com
Emergency Phone No.	Infotrac 24 Hour Emergency Tel, (800) 535-5053
Date of Preparation	May 02, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Reproductive toxicity - Category 2

Label Elements



Signal Word:
Warning

Hazard Statement(s):
Suspected of damaging fertility or the unborn child.

Precautionary Statement(s):
Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF exposed or concerned: Get medical advice/attention.

Storage:

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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
Silica 2482, hydrophobic	7631-86-9	5.0-10.0	Silicon Dioxide	
Ferric oxide	1309-37-1	1.0-5.0	Iron (III) oxide	
Aluminum powder, uncoated	7429-90-5	1.0- 5.0	Aluminium	
Carbon black	1333-86-4	0.1-1.0	Carbon Black	
Titanium dioxide	13463-67-7	0.1-1.0	Titanium (IV) oxide	
Octamethylcyclotetrasiloxane	556-67-2	0.05-0.15		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned. Rinse mouth with water. 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

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

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Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

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

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours. 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.

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Dike spilled product to prevent runoff. Review Section 13 (Disposal Considerations) of this safety data sheet.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Only use where there is adequate ventilation.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Silica 2482, hydrophobic	Not established	Not established	10 mg/m3	Not established	Not established	Not established
Carbon black	3 mg/m3 A3	Not established	3.5 mg/m3	Not established	Not established	Not established
Ferric oxide	5 mg/m3		10 mg/m3			
Titanium dioxide	10 mg/m3 A4	Not established	15 mg/m3	Not established	Not established	Not established
Aluminum powder, uncoated	1 mg/m3		15 mg/m3			
Octamethylcyclotetrasiloxane	10 ppm	15 ppm	10 ppm	Not established	Not established	Not established

Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

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

Skin Protection

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Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Red viscous paste.
Odour	Vinegar
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.007 at 25 °C (77 °F)
Solubility	Not available in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Decomposes in the presence of increased temperature.

Conditions to Avoid

Prolonged exposure to high temperatures. Water, moisture or humidity. Temperatures above 150.0 °C (302.0 °F)

Incompatible Materials

Forms corrosive chemicals on contact with: water. Forms toxic chemicals on contact with: strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

Hazardous Decomposition Products

Very toxic, flammable formaldehyde. carbon oxides silicon oxides metal oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

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

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Likely Routes of Exposure

Skin contact; ingestion; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Silica 2482, hydrophobic	> 2.08 mg/L (rat) (dust)	> 3300 mg/kg (rat)	> 5000 mg/kg (rabbit)
Carbon black	6750 mg/L (rat) (4-hour exposure)		
Ferric oxide		> 10000 mg/kg (rat)	
Titanium dioxide	> 6820 mg/kg (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg (rabbit)
Aluminum powder, uncoated	> 1000 mg/m ³ (rat) (4-hour exposure)		
Octamethylcyclotetrasiloxane	36 mg/L (rat) (4-hour exposure)	1540 mg/kg (rat)	

Skin Corrosion/Irritation

No information was located. 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

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
Silica 2482, hydrophobic	Group 3	Not Listed	Not Listed	Not Listed
Carbon black	Group 2B	A3	Not Listed	Not Listed
Ferric oxide	Group 3	A4	Not Listed	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
Octamethylcyclotetrasiloxane	Not Listed	Not Listed	Not Listed	Not Listed

Not known to cause cancer.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity

Development of Offspring

Animal studies show effects on the offspring. However, these effects are only seen with significant toxicity in the

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mothers.

Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

Effects on or via Lactation

Conclusions cannot be drawn from the limited studies available.

Germ Cell Mutagenicity

Conclusions cannot be drawn from the limited studies available.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Carbon black	> 1000 mg/L (96-hour)	> 5600 mg/L (Daphnia magna (water flea))		> 10000 mg/L (Desmodesmus subspicatus (algae); 72-hour; fresh water; static)
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)
Aluminum powder, uncoated	0.120 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	2.6-9.5 mg/L (Daphnia magna (water flea); 48-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

Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

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

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Environmental Hazards Not applicable
Special Precautions Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

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

All ingredients are listed on the DSL or are not required to be listed.

USA

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

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

CERCLA: Not applicable.

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 311/312: Not applicable.

SARA Title III - Section 313: Aluminum <= 1.5%

California Proposition 65: Not applicable. Compounds are inextricably bound withing the sealant matrix.

Pennsylvania Right To Know: Dimethyl siloxane, hydroxy terminated Silicon dioxide Acetic acid Acetic anhydride Iron Oxide Titanium Dioxide Carbon Black Aluminum.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 0	Flammability - 1	Instability - 0
SDS Prepared By	Technical Services Department		
Phone No.	(519) 823-4994		
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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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