



NUFLEX® 446 ACOUSTICAL & VAPOR BARRIER

SECTION 1. IDENTIFICATION

Product Identifier	NUFLEX® 446 ACOUSTICAL & VAPOR BARRIER
Other Means of Identification	Construction Adhesive
Recommended Use	Construction 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.	Infotrac 24 Hour Emergency Tel, (800) 535-5053
Date of Preparation	April 03, 2018

SECTION 2. HAZARD IDENTIFICATION

Classification

Germ cell mutagenicity - Category 1B; Carcinogenicity - Category 1A

Label Elements



Signal Word:
Danger

Hazard Statement(s):

May cause genetic defects.
May cause cancer.

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 SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice or 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
Kaolin	1332-58-7	20-50		
Calcium carbonate	1317-65-3	20-50		
Stoddard solvent	8052-41-3	5-10		
Solvent-dewaxed residual oil	64742-62-7	5-10		
Hydrotreated kerosene	64742-47-8	1.0-5.0		
Talc, Containing No Asbestos or Crystalline Silica	14807-96-6	1.0-5.0		
Silica, quartz	14808-60-7	0.5-1.5		
Titanium dioxide	13463-67-7	0.1-1.0		
1,2,4-Trimethylbenzene	95-63-6	0.1-1.0		
n-Nonane	111-84-2	0.1-1.0		
Carbon black	1333-86-4	0.1-1.0		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If exposed or concerned, get medical advice or attention.

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.

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

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

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

Target Organs

Eyes, skin.

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.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; very toxic polycyclic aromatic hydrocarbons; silicon oxides; carbon oxides.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. 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. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Minimize the use of water to prevent environmental contamination.

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. Contaminated absorbent poses the same hazard as the spilled product. 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. Do not breathe in this product. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Avoid release to the environment. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this material.

Conditions for Safe Storage

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

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Kaolin	2 mg/m ³	Not established	15 mg/m ³	Not established	Not established	Not established
Calcium carbonate	Not established	Not established	15 mg/m ³	Not established	Not established	Not established
Stoddard solvent	100 ppm	Not established	500 ppm	Not established	Not established	Not established
Hydrotreated kerosene	200 mg/m ³	Not established	Not established	Not established	Not established	Not established
Solvent-dewaxed residual oil	Not established	Not established	Not established	Not established	Not established	Not established
Silica, quartz	0.025 mg/m ³	0.025 mg/m ³	10 mg/m ³	30 mg/m ³	Not established	Not established
Titanium dioxide	10 mg/m ³ A4	Not established	15 mg/m ³	Not established	Not established	Not established
1,2,4-Trimethylbenzene	25 ppm					
n-Nonane	200 ppm	Not established	Not established	Not established	Not established	Not established
Carbon black	3 mg/m ³ A3	Not established	3.5 mg/m ³	Not established	Not established	Not established
Talc, Containing No Asbestos or Crystalline Silica	2 mg/m ³	Not established	0.1 mg/m ³	Not established	Not established	Not established

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

Wear chemical safety goggles.

Skin Protection

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

Suitable materials are: neoprene rubber, nitrile rubber, Viton®, Silver Shield®.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark grey viscous paste.
Odour	Gasoline-like
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	400 °C
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not available

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Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	1.62 at 25 °C (77 °F)
Solubility	Practically insoluble 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	
Physical State	Liquid
Volatile Organic Content	150 g/L, 9.28% w/w (CARB Mehtod 310)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Prolonged exposure to high temperatures.

Incompatible Materials

Reacts violently with: strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).

Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Likely Routes of Exposure

Inhalation.

Skin contact.

Skin absorption.

Eye contact.

Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium carbonate		> 6450 mg/kg (rat)	
Stoddard solvent	> 5500 mg/m ³ (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)
Solvent-dewaxed residual oil	> 2000 mg/kg (rat)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Silica, quartz		500 mg/kg (rat)	

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Titanium dioxide	> 6820 mg/kg (rat) (4-hour exposure)	> 25000 mg/kg (rat)	> 10000 mg/kg (rabbit)
1,2,4-Trimethylbenzene	3670 ppm (rat) (4-hour exposure)	3400 mg/kg (rat)	
n-Nonane	3200 ppm (rat) (4-hour exposure)	15000 mg/kg (rat)	
Carbon black	6750 mg/L (rat) (4-hour exposure)		

Skin Corrosion/Irritation

May cause moderate or severe irritation based on information for closely related materials.

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

Harmful based on information for closely related materials.

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
Kaolin	Not Listed	A4	Not Listed	Not Listed
Calcium carbonate	Not Listed	Not designated	Not Listed	Not Listed
Stoddard solvent	Group 3	Not designated	Not Listed	Not Listed
Hydrotreated kerosene	Group 3	A3	Not Listed	Not Listed
Solvent-dewaxed residual oil	Not Listed	Not designated	Not Listed	Not Listed
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
Titanium dioxide	Group 2B	A4	Not Listed	Not Listed
n-Nonane	Not Listed	Not designated	Not Listed	Not Listed
Carbon black	Group 2B	A3	Not Listed	Not Listed
Talc, Containing No Asbestos or Crystalline Silica	Group 3	A4	Not Listed	Not Listed

IARC:

Group 1 – Carcinogenic to humans.

Group 2B – Possibly carcinogenic to humans.

Group 3 – Not classifiable as to its carcinogenicity to humans.

ACGIH®:

A2 – Suspected human carcinogen.

A3 – Confirmed animal carcinogen.

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.

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. Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). 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. Empty containers retain product residue. Follow label warnings even if container appears to be empty.

SECTION 14. TRANSPORT INFORMATION

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

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**

None known.

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 listed on the TSCA Inventory.

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Additional USA Regulatory Lists

California Proposition 65:

Not applicable.

Massachusetts, New Jersey, and Pennsylvania Right To Know. (Kaolin). (Calcium carbonate). (Stoddard solvent). (Hydrotreated kerosene). (Silica, quartz)

CERCLA:

Nonane- 100 lbs.

Xylene- 100 lbs.

Naphthalene- 100 lbs.

Ethylbenzene- 1000 lbs.

SARA Title III - Section 302:

Not applicable.

SARA Title III - Section 311/312:

All Components: 500 lbs.

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	April 03, 2018		
Date of Last Revision	September 19, 2019		
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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