MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Seal-Loc (4350)

CAS # Mixture

Product use Thread Sealing Compound

Manufacturer Nu-Calgon 2008 Altom Court

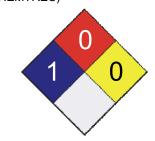
St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview WARNING

EYE AND SKIN IRRITANT.

CONTAINS MATERIAL WHICH MAY CAUSE CANCER. May cause chronic toxic

effects.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

IngestionMay cause stomach distress, nausea or vomiting.Target organsEyes. Lungs. Respiratory system. Stomach.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc)

for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Foots oil (petroleum)	64742-67-2	30 - 60
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	30 - 60
Residual oils (petroleum), hydrotreated	64742-57-0	30 - 60
Residual oils (Petroleum), solvent-dewaxed	64742-62-7	30 - 60
Hydrous magnesium silicate	14807-96-6	10 - 30
Kaolin	1332-58-7	10 - 30
P-Aramide	26125-61-1	1 - 5
Titanium oxide	13463-67-7	1 - 5
Silica, amorphous, fumed, crystalline free	112945-52-5	0.5 - 1.5

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Fog. Water spray. Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

Sensitivity to mechanical

Sensitivity to static discharge

impact

Not available

Not available

6. Accidental Release Measures

May include and are not limited to: Oxides of carbon.

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Methods for containmentStop leak if you can do so without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labelled

containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Ex	posure Conf	trols / Personal Protection
Exposure limits		
Ingredient(s)		Exposure Limits
Foots oil (petroleum)		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Hydrous magnesium silicate		ACGIH-TLV
		TWA: 2 mg/m3
		OSHA-PEL
		Not established
Kaolin		ACGIH-TLV
		TWA: 2 mg/m3
		OSHA-PEL
		TWA: 15 mg/m3
Lubricating oils, petroleum, hydrotreat	ted spent	ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
P-Aramide		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Residual oils (petroleum), hydrotreate	d	ACGIH-TLV
		Mist: 5 mg/m3
		OSHA-PEL
		Not established
Residual oils (Petroleum), solvent-dev	waxed	ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Silica, amorphous, fumed, crystalline	free	ACGIH-TLV
		Not established
		OSHA-PEL
		TWA: 6 mg/m3
Titanium oxide		ACGIH-TLV
		TWA: 10 mg/m3
		OSHA-PEL
		TWA: 15 mg/m3
Engineering controls	General ventilation	on normally adequate.
Personal protective equipment	M	
Eye / face protection		sses with side shields.
Hand protection	_	Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.	
Respiratory protection	•	guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accorda eat or drink.	ance with good industrial hygiene and safety practice. When using do not . Wash hands before breaks and immediately after handling the product.

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9. Physical & Chemical Properties

Appearance paste Blue Color **Form** paste Odor Odorless Not available Odor threshold Physical state Liquid

Not available рH **Melting point** Not available Not available Freezing point Not available **Boiling point** Flash point Not available Not available **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Not available Flammability limits in air, upper, %

by volume

Not available Vapor pressure Not available Vapor density

Specific gravity 1.2

Not available Octanol/water coefficient Insoluble Solubility (H2O) **Auto-ignition temperature** Not available Not available VOC (Weight %) Viscous **Viscosity** Percent volatile Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Oxidizers. Incompatible materials

May include and are not limited to: Oxides of carbon. Hazardous decomposition products

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50	
Ingredient(s)	LC50
Foots oil (petroleum)	Not available
Hydrous magnesium silicate	Not available
Kaolin	Not available
Lubricating oils, petroleum, hydrotreated spent	Not available
P-Aramide	Not available
Residual oils (petroleum), hydrotreated	Not available
Residual oils (Petroleum), solvent-dewaxed	2 mg/l/4h rat
Silica, amorphous, fumed, crystalline free	Not available
Titanium oxide	Not available

Component analysis - Oral LD50

Ingradiant/a\

Ingredient(s)	LD50
Foots oil (petroleum)	15000 mg/kg rat
Hydrous magnesium silicate	Not available
Kaolin	Not available
Lubricating oils, petroleum, hydrotreated spent	2000.0001 mg/kg rat
P-Aramide	Not available
Residual oils (petroleum), hydrotreated	> 5000 mg/kg rat
Residual oils (Petroleum), solvent-dewaxed	5000 mg/kg rat
Silica, amorphous, fumed, crystalline free	3160 mg/kg rat
Titanium oxide	24000 mg/kg rat

I DEO

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria.

Chronic effects Fibrosis was observed in rats exposed to 6 mg/m3 of hydrous magnesium silicate (talc)

for 113 or 122 weeks. Chronic respiratory disease has been observed in workers exposed to up to 3.0 mg/m3 of airborne talc ore free of asbestos and silica.

Carcinogenicity Contains a potential carcinogen.

High concentrations of pigment-grade (powdered) and ultrafine titanium dioxide

(titanium oxide) dust have caused respiratory tract cancer in rats exposed by inhalation

and intratracheal instillation.

ACGIH - Threshold Limit Values - Carcinogens

Hydrous magnesium silicate 14807-96-6 A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers); A1 -

Confirmed Human Carcinogen (containing asbestos fibers)

Kaolin 1332-58-7 A4 - Not Classifiable as a Human Carcinogen Titanium oxide 13463-67-7 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 2B (Possibly Carcinogenic to Humans)

Titanium oxide 13463-67-7 Monograph 93 posted, Monograph 47 [1989]

IARC - Group 3 (Not Classifiable)

Hydrous magnesium silicate 14807-96-6 Monograph 93 [in preparation] (inhaled), Supplement 7 [1987], Monograph 42 [1987]

P-Aramide 26125-61-1 Monograph 68 [1997] (listed under para-Aramid fibrils) Silica, amorphous, fumed, 112945-52-5 Monograph 68 [1997] (listed under Amorphous silica)

crystalline free

MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish Species Data

Hydrous magnesium silicate 14807-96-6 96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]

Lubricating oils, petroleum, 64742-58-1 96 Hr LC50 Brachydanio rerio: 79.6 mg/L [semi-static]; 96 Hr LC50 Pimephales

hydrotreated spent promelas: 3.2 mg/L [semi-static]

Residual oils (Petroleum), 64742-62-7 96 Hr LC50 Pimephales promelas: >5000 mg/L

solvent-dewaxed

Ecotoxicity - Water Flea Data

Residual oils (Petroleum), 64742-62-7 48 Hr EC50 Daphnia magna: >1000 mg/L

solvent-dewaxed

Environmental effectsNot availableAquatic toxicityNot availablePersistence / degradabilityNot availableBioaccumulation / accumulationNot available

Partition coefficientNot availableMobility in environmental mediaNot availableChemical fate informationNot available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

US Federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

WHMIS status Controlled

WHMIS classification Class D - Division 2A, 2B

WHMIS labeling



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This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Hydrous magnesium silicate 14807-96-6 Present (exempt except when inhalable dust is present or can be generated) U.S. - Massachusetts - Right To Know List Present (exempt when encapsulated or if particulates are not present and cannot be Hydrous magnesium silicate 14807-96-6 substantially generated through use of the product) Kaolin 1332-58-7 Present (dust, exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product) Titanium oxide 13463-67-7 Present U.S. - Minnesota - Hazardous Substance List

Hydrous magnesium silicate 14807-96-6 Present (fibrous, nonasbestiform, and respirable)

Kaolin 1332-58-7 Present (dust) Titanium oxide 13463-67-7 Present (dust)

U.S. - New Jersey - Right to Know Hazardous Substance List

Hydrous magnesium silicate 14807-96-6 sn 1773

Silica, amorphous, fumed, 112945-52-5 Sn 2643 (flammable, liquid, toxic, flash point less than 23°C); sn 2642 (flammable, liquid, crystalline free toxic, flash point between 23°C and 61°C); sn 2644 (liquid, toxic); sn 2645 (solid, toxic)

Titanium oxide 13463-67-7 sn 1861

U.S. - Pennsylvania - RTK (Right to Know) List

Hydrous magnesium silicate 14807-96-6 Present Kaolin 1332-58-7 Present Titanium oxide 13463-67-7 Present

U.S. - Rhode Island - Hazardous Substance List

Hydrous magnesium silicate 14807-96-6 Toxic Kaolin 1332-58-7 Toxic Titanium oxide 13463-67-7 Toxic

Inventory name

Country(s) or region Inventory name On inventory (yes/no)* Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Information contained herein was obtained from sources considered technically accurate Disclaimer

> and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

Issue date 21-Jul-2011 21-Jul-2011 Effective date **Expiry date** 21-Jul-2014

Nu-Calgon Technical Service (314) 469-7000 Prepared by



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800)	554-5499		CHEMTREC (800) 424-9300	
Street Address 2008 Altom Court	City St. Louis	State MO	Postal 63146-		<u>Last Update</u> 1/11/07
Product Name Seal-Loc	Product Number 4350	Product Use Thread Sealing Co	ompound	l	EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	% By Wt.	CAS Number	TLV	<u>PEL</u>
Petroleum hydroearbon	30-60	64742-58-1, 64742- 62-7, 64742-57-0,	5 mg/m3 ACG1H/OSHA TWA (as oil mist)	No Data.
Tale	10-30	14807-96-6	2 mg/m3 ACGIH ((respirable dust)	No Data.
Clay	10-30	1332-58-7	2 mg/m3 ACG1H ((respirable dust)	No Data.
Titanium Dioxide	5-10	13463-67-7	10 mg/m3 ACGIH (respirable dust)	No Data.
Fumed Silica	1-5	112945-52-5	2 mg/m3 ACGIH (respirable dust)	No Data.

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: May eause mild eye irritation. May cause mild skin irritation on prolonged contact. Prolonged inhalation of dusts from dried product may cause lung damage.

Potential Health Effects

Eyes: May eause mild irritation or discomfort.

Skin: Prolonged contact may cause mild irritation.

Ingestion: Swallowing may cause nausea, vomiting and diarrhea.

<u>Inhalation</u>: Inhalation is not a normal route of exposure for this product. Inhalation of dusts from dried product may cause irritation of the nose throat and upper respiratory tract.

Chronic Exposure: Prolonged inhalation of dusts from dried product may eause lung damage.

Carcinogenieity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Medical Conditions Aggravated be Exposure: None known.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush victim's eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.

Skin: No first aid is required. Wash with soap and water after use.

Ingestion: Do not induce vomiting. Get immediate medical attention.

Inhalation: No first aid is required. Inhalation is not a normal route of exposure for this product

SECTION 5 - FIREFIGHTING MEASURES

Flash Point: Not applicable F

Autoignition Temp: Not applicable °C/Not applicable °F

Hazardous Products of Combustion: Burning may produce carbon monoxide, carbon dioxide and unidentified hydrocarbons.

Flammable Limits in Air: Not applicable

Extinguishing Media: Use water fog or spray, carbon dioxide, dry chemical or foam.

Fire and Explosion Hazards: None known.

Special Firefighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Collect with inert absorbent and place in container for disposal. Report releases as required by local, provincial and federal authorities.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with the eyes. Keep containers closed when not in use.

Storage Requirements: Store in a cool, dry area.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None normally needed.

Eye Protection: Safety glasses recommended where contact is possible.

Protective Clothing: None required for normal use.

Exposure Guidelines: Rubber gloves can be worn to prevent prolonged contact.

Specific Engineering Controls (such as ventilation, enclosed process): None required for normal use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BECTTOTIS THE BECKE AND CHEM	TERE I NOI ENTIES	
Physical Form: Paste	Freezing Point: N/A°C/N/A°F	% Volatile by Weight: not determined%
Color: Blue paste	Vapor Density air =1 : Paste	Evaporation Rate: Not applieable
Odor: odorless	<u>Vapor Pressure</u> : Not applicable	Specific Gravity: 1.2
Boiling Point: Not applicable °C/Not applicable °F	Solubility in Water: Insoluble	pH (concentrate): Not determined

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage and handling conditions.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid direct contact with open flames.

Reactive Conditions to avoid: None

Decomposition Products: Burning may produce carbon monoxide, carbon dioxide and unidentified hydrocarbons.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS#	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
HEALTH HAZARDS: See Section 3.				
			·	

SECTION 12 - ECOLOGICAL INFORMATION

Hazardous Ingredients	Aguatie Toxicity Data
N/A	No ecological information known

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state and federal environmental regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shi	pping Information: NONE			
Purview	Proper Shipping Name	UN Number	Packing Group	<u>Hazard Class</u>
DOT (Land)	Not regulated for transport	None	N/A	N/A
IMO (Water)	Not regulated for transport	None	N/A	N/A
ICAO (Air)	Not regulated for transport	None	N/A	N/A

SECTION 15 – REGULATORY INFORMATION

	SECTION IS REGULATORY INFORMATION				
WHMIS Classification: (Workplace Hazardous Material Information System)	D-2-B				
SARA Title III: (Superfund Amendments & Reauthorization Act)	Not a hazardous waste				
OSHA: (Occupational Safety & Health Administration)	Non Hazardous				
TSCA: (Toxic Substance Control Act)	Complies				
VOC: (volatile Organic Compounds)	Not determined				
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.				
EINECS: (European Inventory of Existing Commercial Chemical Substances)	N/A				
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	All the components of this product are listed on the Canadian DSL list				
CERCLA: (Comprehensive Response Compensation & Liability Act)	No Data.				
IDL: (Canadian Ingredient Disclosure List)	Complies				
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	0, 1, 0				

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nn-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described berin.