

LIQUITUBE™ TIRE SEALANT

SDS Preparation Date (mm/dd/yyyy): 03/21/2018

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: LIQUITUBE™ TIRE SEALANT

Product Code(s) : 95522 (236 mL / 8 oz); 95533 (473 mL / 16 oz); 95544 (946 mL / 32 oz); 95555 (3.78 L / 1

gallon); 95566 (18.9 L / 5 gallon); 95577 (Combo 18.9 L / 5 gallon, with pump); 95578 (208 L

the manufacturer:

Refer to supplier

Name, address, and telephone number of

/ 55 gallon); 95579 (1040 L / 275 gallon)

Recommended use of the chemical and restrictions on use

Premium heavy duty tire sealant. No restrictions on use known.

Chemical family : Mixture of: glycol; Water; Filler; Amines; Ethoxylated alcohol; Preservative

SDS number : LT3613500

Name, address, and telephone number of

the supplier: NLS Products

Box 790, 1 Lakewood Crescent Bobcaygeon, ON, Canada

KOM 1A0

Supplier's Telephone # : (705) 732-2321

24 Hr. Emergency Tel # : No information available.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

White opaque liquid. No odour.

Most important hazards:

Inhalation may cause central nervous system depression. Suspected of damaging the unborn child. May cause damage to organs. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Hazardous classification:

Reproductive toxicity - Category 2 (Developmental)

Specific target organ toxicity, single exposure - Category 2

Specific target organ toxicity, repeated exposure - Category 3 (Narcotic effects)

Label elements

Hazard pictogram(s)





Signal Word WARNING!

Hazard statement(s)

May cause drowsiness or dizziness.
Suspected of damaging the unborn child.

May cause damage to organs.



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Precautionary statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe fumes, mists or vapours.

Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Call a POISON CENTER or doctor/physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Direct eye contact may cause slight or mild, transient irritation. May be mildly irritating to skin and respiratory system. Prolonged overexposure may cause slight liver effects, such as increased organ weights.

Environmental precautions:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Ethylene glycol	1,2-Ethanediol 1,2-Dihydroxyethane	107-21-1	41.0
titanium dioxide	Anatase Titanic acid anhydride	13463-67-7	1.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Skin contact

Eye contact

Ingestion
 Do not induce vomiting. Never give anything by mouth to an unconscious person. If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation
 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

: Immediately flush with plenty of water, while removing contaminated clothing. If exposed or concerned: Call a POISON CENTER or doctor/physician.

: Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation or symptoms

develop, seek medical attention.



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Most important symptoms and effects, both acute and delayed

: May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Initially, the central nervous system is stimulated, followed by depression.

Suspected of damaging the unborn child. Symptoms may include late resorptions, reduced fetal body weight and external, soft tissue and skeletal defects.

May cause damage to organs. Symptoms may include abdominal pain, excess urine production followed by diminished urine production, blood in the urine, tissue death in the kidney and oxalate crystal deposition.

Direct eye contact may cause slight or mild, transient irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

Direct skin contact may cause temporary redness.

Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: None known.

Special hazards arising from the substance or mixture / Conditions of flammability

 Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.106)

: Not considered flammable.

Hazardous combustion products

Carbon oxides; Formaldehyde; Nitrogen oxides (NOx); Aldehydes; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Use water spray to keep containers cool. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.



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Methods and material for containment and cleaning up

: Ventilate the area. Stop the spill at source if it is safe to do so. Eliminate all ignition sources. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Never return spills in original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): Ethylene glycol (5000 lbs / 2270 kg)

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area. Do not ingest. Do not breathe fumes, mists or vapours. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.

Conditions for safe storage

Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store locked up.

Incompatible materials

: Strong oxidizing agents; Strong acids; Strong bases; Halogenated compounds

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGII	1 TLV	OSHA P	<u>EL</u>
	TWA	STEL	<u>PEL</u>	STEL
Ethylene glycol	25 ppm (vapour)	50 ppm (vapour); 10 mg/m³ (inhalable) (aerosol)	50 ppm (125 mg/m³) (Ceiling) (final rule limit)	N/Av
titanium dioxide	10 mg/m³	N/Av	15 mg/m³ (total dust)	N/Av

Exposure controls

Ventilation and engineering measures

: Use only outdoors or in a well-ventilated area. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.





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Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved

respirators are recommended. Seek advice from respiratory protection specialists.

Respirators should be selected based on the form and concentration of contaminants in air,

and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Wear resistant clothing and boots.

Eye / face protection : Wear eye/face protection. Wear as appropriate: Safety glasses with side shields; Tightly

fitting safety goggles. A full face shield may also be necessary.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

Do not breathe fumes, mists or vapours. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White opaque liquid.

Odour : Little or no odour.

Odour threshold : N/Av
pH : 8.5
Melting/Freezing point : N/Av

Initial boiling point and boiling range

: > 100°C (212°F) (based on ingredients)

Flash point : > 100°C (212°F)

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : < 1 (butyl acetate = 1)

Flammability (solid, gas) : N/Ap Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : < 0.1 mmHg @ 20°C (68°F)

Vapour density : > 1 (Air = 1.0)

Relative density / Specific gravity

: 1.02

Solubility in water : Complete
Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Viscosity : N/Av
Volatiles (% by weight) : 95%
Volatile organic Compounds (VOC's)

: N/Av



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Absolute pressure of container

: N/Ap

Flame projection length : N/Ap Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use. Hazardous polymerization

does not occur.

Conditions to avoid : Avoid excessive heat, sparks and open flame. Do not use in areas without adequate

ventilation. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents; Strong acids; Strong bases; Halogenated compounds

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption

: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause

coughing or sneezing.

Sign and symptoms ingestion

: May cause central nervous system effects. Symptoms may include pain, headache, nausea,

vomiting, dizziness, drowsiness and other central nervous system effects. Initially, the

central nervous system is stimulated, followed by depression.

Sign and symptoms skin : Direct skin contact may cause temporary redness. Product may be absorbed and cause

symptoms similar to those listed for ingestion.

Sign and symptoms eyes : Direct eye contact may cause slight or mild, transient irritation. Symptoms may include

redness, pain, tearing and conjunctivitis.

Potential Chronic Health Effects

Prolonged or repeated ingestion may cause bladder or kidney stones. Prolonged

overexposure may cause slight liver effects, such as increased organ weights.

Mutagenicity : No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity : Not considered to be a hazard. No components are listed as carcinogens by ACGIH, IARC,

OSHA or NTP.



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Reproductive effects & Teratogenicity

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Reproductive toxicity - Category 2. Suspected of damaging the unborn child. Contains ethylene glycol, which may cause teratogenic effects at doses which are not maternally toxic, based on animal data. Symptoms may include late resorptions, reduced fetal body weight and external, soft tissue and skeletal defects.

Sensitization to material Specific target organ effects

Not expected to be a skin or respiratory sensitizer.

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200)

(Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations)

(WHMIS 2015). Classification:

Specific target organ toxicity, single exposure - Category 2. May cause damage to organs. Contains: Ethylene glycol. Ethylene glycol may cause kidney stones and kidney damage if ingested. Symptoms may include abdominal pain, excess urine production followed by diminished urine production, blood in the urine, tissue death in the kidney and oxalate crystal deposition.

Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or

dizziness.

Medical conditions aggravated by overexposure

: Pre-existing skin or eye disorders, and impaired liver or kidney functions.

Synergistic materials Toxicological data

: None known or reported by the manufacturer.

: Not classified for acute toxicity based on available data. No data is available on the product itself. The calculated ATE values for this mixture are:

ATE oral = 2707 mg/kg

ATE inhalation (vapours) = 460 mg/L/4H ATE inhalation (mists) = 21.3 mg/L/4H

See below for individual ingredient acute toxicity data.

	LC ₅₀ (4hr)	LD50		
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)	
Ethylene glycol	4300 ppm (10.92 mg/L) (aerosol)	4000 (rat) The estimated human lethal dose is: 1110 - 1665 mg/kg	9530 mg/kg	
titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg	

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

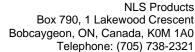
Ecotoxicity

: There is no data available for this product. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	0.10.11	Toxicity to Fish				
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Ethylene glycol	107-21-1	22 810 mg/L (Rainbow trout	N/Av	None.		
titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.		





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<u>Ingredients</u>	CAS No	CAS No Toxicity to Daphnia					
		EC50 / 48h	NOEC / 21 day	M Factor			
Ethylene glycol	107-21-1	49 000 mg/L (Daphnia magna)	7500 - 15 000 mg/L	None.			
titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.			

<u>Ingredients</u>	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Ethylene glycol	107-21-1	6500 - 13 000 mg/L/96hr (Green algae)	10 000 mg/L/96hr	None.		
titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.		

Persistence and degradability

: No data is available on the product itself.

The following ingredients are considered to be readily biodegradable: Ethylene glycol. Contains the following chemicals which are not readily biodegradable: titanium dioxide.

Bioaccumulation potential

: No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Ethylene glycol (CAS 107-21-1)	- 1.36	10

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Methods of Disposal

Dispose in accordance with all applicable federal, state, provincial and local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	none	\otimes
49CFR/DOT Additional information	None.	!			
TDG	None.	Not regulated.	Not regulated	none	\otimes
TDG Additional information	None.	-			
ICAO/IATA	None.	Not regulated.	Not regulated	none	\otimes
ICAO/IATA Additional information	None.	!			
IMDG	None.	Not regulated.	Not regulated	none	\otimes
IMDG Additional information	None.	!			

Special precautions for user

: Appropriate advice on safety must accompany the package.

Environmental hazards

: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

la and disease	TSCA Inventory		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely Hazardous	Specific Toxic Chemical		
<u>Ingredients</u>			Quantity(RQ) (40 CFR 117.302):	Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Ethylene glycol	107-21-1	Yes	5000 lb/ 2270 kg	None.	Yes	1%	
titanium dioxide	13463-67-7	Yes	None.	None.	No	N/Ap	



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards (Reproductive toxicity; Specific target organ toxicity, single exposure)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	Californ	California Proposition 65		State "Right to Know" Lists				
	OAO #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethylene glycol	107-21-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
titanium dioxide	13463-67-7	Yes	Cancer (airborne, unbound particles of resirable size)	No	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: Ethylene glycol (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Ethylene glycol	107-21-1	203-473-3	Present	Present	(2)-230	KE-13169	Present	HSR001534
titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CA: California

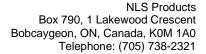
CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations COC: Cleveland Open Cup

DOT: Department of Transportation EC50: Effective Concentration 50%





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EINECS: European Inventory of Existing Commercial chemical Substances

EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

Inh: Inhalation

IOC: Inventory of Chemicals

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

References

- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
 - 2. International Agency for Research on Cancer Monographs, searched 2017.
 - Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).
 - 4. Material Safety Data Sheets from manufacturer.
 - 5. US EPA Title III List of Lists March 2015 version.
 - 6. California Proposition 65 List January 27, 2017 version.
 - 7. OECD The Global Portal to Information on Chemical Substances eChemPortal, 2017.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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Prepared for:

NLS Products Box 790, 1 Lakewood Crescent Bobcaygeon, ON, Canada K0M 1A0

Telephone: (705) 732-2321

Direct all enquiries to: NLS Products

Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com





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