



Fluid Film Non-Aerosol Black

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Fluid Film Non-Aerosol Black**

Stock Numbers : Black Bulk #6400 3.78 L Can, #6500 18.9 L Pail, #6600 208 L Drum

Recommended use of the chemical and restrictions on use

: Penetrant and lubricant, which is also used for corrosion prevention.  
No restrictions on use known.

Chemical family

: Mixture of: Petroleum oil; Water ;Surfactant .

Name, address, and telephone number  
of the supplier:

**NLS Products**

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

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

**24 Hr. Emergency Tel #** : INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

Name, address, and telephone number  
of the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Black liquid. Wax-like odour.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

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

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

*Hazard pictogram(s)*

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

*Signal Word*

None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

*Hazard statement(s)*

None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

*Precautionary statement(s)*

None required under U.S. OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

Other hazards

Other hazards which do not result in classification:

Toxic fumes, gases or vapours may evolve on burning. May be mildly irritating to skin, eyes and respiratory system. May cause gastrointestinal irritation. Prolonged overexposure may cause slight liver effects, such as increased organ weights.



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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Hydrotreated heavy paraffinic	Mineral oil, petroleum distillates, hydrotreated	64742-54-7	45.0 - 70.0
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	Not available.	93820-57-6	1.0 - 5.0
Carbon black	Furnace black Lamp black Thermal black	1333-86-4	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing is irregular or stopped, administer artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention. Launder clothing before reuse.
- Eye contact* : Flush eyes with water for at least 15 minutes. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to skin, eyes and respiratory system. May cause coughing and breathing difficulties. Symptoms may include mild redness and swelling. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged overexposure may cause slight liver effects, such as increased organ weights.

#### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

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

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes, gases or vapours may evolve on burning.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.

#### Hazardous combustion products

- : Carbon oxides; Hydrocarbons; Sulfur oxides; Phosphorus oxides; Nitrogen oxides (NO<sub>x</sub>); Polycyclic aromatic hydrocarbons; Other unidentified organic compounds.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*

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- : 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. Cool closed containers exposed to fire with water spray. 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

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil.

### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. For waste disposal, see Section 13 of the SDS.

### 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): None known.

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

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- : Use with adequate ventilation. Avoid breathing mist or vapours. Wear suitable protective equipment during handling. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Conditions for safe storage** : Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles.

**Incompatible materials** : Strong oxidizing agents



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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b><u>Exposure Limits:</u></b>				
<b><u>Chemical Name</u></b>	<b><u>ACGIH TLV</u></b>		<b><u>OSHA PEL</u></b>	
	<b><u>TWA</u></b>	<b><u>STEL</u></b>	<b><u>PEL</u></b>	<b><u>STEL</u></b>
Hydrotreated heavy paraffinic	5 mg/m <sup>3</sup> (inhalable) (severely refined mineral oils)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	N/Av	N/Av	N/Av	N/Av
Carbon black	3.0 mg/m <sup>3</sup> (inhalable)	N/Av	3.5 mg/m <sup>3</sup>	N/Av

### **Exposure controls**

#### **Ventilation and engineering measures**

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. 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.

#### **Respiratory protection**

: If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. 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. Advice should be sought from respiratory protection specialists.

#### **Skin protection**

: Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

#### **Eye / face protection**

: Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields.

#### **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**

: Avoid breathing dust, mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Black liquid.

**Odour** : Wax-like odour.

**Odour threshold** : N/Av

**pH** : 7.8

**Melting Point/Freezing point** : N/Av

#### **Initial boiling point and boiling range**

: > 150°C (302°F) (based on ingredients)

**Flash point** : 207°C (405°F)

**Flashpoint (Method)** : Cleveland Open Cup

**Evaporation rate (BuAe = 1)** : N/Av

**Flammability (solid, gas)** : Not applicable.



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**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: N/Av

**Oxidizing properties**

: None.

**Explosive properties**

: Not explosive

**Vapour pressure**

: N/Av

**Vapour density**

: N/Av

**Relative density / Specific gravity**

: 0.88

**Solubility in water**

: Insoluble.

**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**

: 6560 cP @ 40 °C

**Volatiles (% by weight)**

: < 1%

**Volatile organic Compounds (VOC's)**

: N/Av

**Absolute pressure of container**

: N/Av

**Flame projection length**

: N/Av

**Other physical/chemical comments**

: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

: Not normally reactive.

**Chemical stability**

: Stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid**

: Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

**Incompatible materials**

: Strong oxidizing agents

**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

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### **Potential Health Effects:**

#### **Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

- : May cause mild transient irritation. May cause coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

*Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

*Sign and symptoms skin*

- : May cause mild skin irritation. Symptoms may include mild redness and swelling. May be absorbed through the skin.

*Sign and symptoms eyes*

- : Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause temporary redness.

#### **Potential Chronic Health Effects**

- : 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 classifiable as a human carcinogen. This product contains Carbon black, an IARC Group 2B carcinogen. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The carcinogenic effects of Carbon black are therefore not applicable to this product.

#### **Reproductive effects & Teratogenicity**

- : This product is not expected to cause reproductive or developmental effects.

#### **Sensitization to material**

- : Not expected to be a skin or respiratory sensitizer.

#### **Specific target organ effects**

- : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Mild effects may be seen in the following organs: Eyes; Skin; Respiratory system; Digestive system; Liver

#### **Medical conditions aggravated by overexposure**

- : Pre-existing skin, eye, respiratory and central nervous system disorders.

#### **Synergistic materials**

- : None reported by the manufacturer.

#### **Toxicological data**

- : No data is available on the product itself.

See below for individual ingredient acute toxicity data.

<b>Chemical name</b>	<b>LC<sub>50</sub>(4hr) inh. rat</b>	<b>LD<sub>50</sub></b>	
		<b>(Oral, rat)</b>	<b>(Rabbit, dermal)</b>
Hydrotreated heavy paraffinic	> 5.53 mg/L (mist) (No mortality)	> 15 000 mg/kg	> 5000 mg/kg
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	>1.9 mg/L	>5000 mg/kg	>5000 mg/kg
Carbon black	6.75 mg/L (dust)	> 10 000 mg/kg	> 3000 mg/kg



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**Other important toxicological hazards**

: None reported by the manufacturer.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. 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>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic	64742-54-7	> 100 mg/L (Fathead minnow)	> 1000 mg/L/28-day (QSAR)	None.
Carbon black	1333-86-4	> 1000 mg/L (Zebra fish)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated heavy paraffinic	64742-54-7	> 10 000 mg/L (Daphnia magna) (Read-across)	10 mg/L	None.
Carbon black	1333-86-4	> 5600 mg/L/24hr (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated heavy paraffinic	64742-54-7	N/Av	> 100 mg/L/72hr (Green algae) (Read-across)	None.
Carbon black	1333-86-4	> 10 000 mg/L/72hr (Green algae)	N/Av	None.

**Persistence and degradability**

: The product itself has not been tested.  
 Contains the following chemicals which are considered to be inherently biodegradable:  
 Hydrotreated heavy paraffinic .  
 Contains the following chemicals which are not readily biodegradable: .

**Bioaccumulation potential**

: The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrotreated heavy paraffinic (CAS 64742-54-7)	3.9 - 6	N/Av

**Mobility in soil** : The product itself has not been tested.

**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.



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### 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.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- 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.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	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 ECOLOGICAL INFORMATION, Section 12.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 : Not applicable.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

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





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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Hydrotreated heavy paraffinic	64742-54-7	Yes	None.	None.	No	N/Ap
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	93820-57-6	Yes	N/Ap	N/Av	No	No
Carbon black	1333-86-4	Yes	None.	None.	No	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

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 #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated heavy paraffinic	64742-54-7	No	N/Ap	No	No	No	No	No	No
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	93820-57-6	No	N/Ap	No	No	No	No	No	No
Carbon black	1333-86-4	Yes	Cancer (airborne, unbound particles of respirable size)	Yes	Yes	Yes	Yes	Yes	Yes

**Canadian Information:**

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

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	NewZealand IOC
Hydrotreated heavy paraffinic	64742-54-7	265-157-1	Present	Present	(2)-10; (9)-1692; (9)-1692	KE-12546	Present	May be used as a single component chemical under an appropriate group standard.
Benzenesulfonic acid, di-C10-18-alkyl derivatives, calcium salts	93820-57-6	298-637-4	N/Av	Present	N/Av	N/Av	Present	N/Av
Carbon black	1333-86-4	215-609-9	Present	Present	(5)-3328; (5)-5222	KE-04682	Present	HSR002801



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### 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  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
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  
NOEC: No observable effect concentration  
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  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

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- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for
  2. ECHA - European Chemical Agency
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
  4. Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists
  6. California Proposition 65 List
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b>          NLS Products          Box 790, 1 Lakewood Crescent          Bobcaygeon, ON, Canada          K0M 1A0          Telephone: (705) 738-2321</p>	
<p><b><u>Prepared by:</u></b>          ICC The Compliance Center Inc.          Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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