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## SAFETY DATA SHEET

#### **SECTION 1. IDENTIFICATION**

Product identifier used on the	he label	
	Chloride Reagent	
Product Code(s)	: R-0682	
Recommended use of the cl	nemical and restrictions on use	
Chemical family	<ul> <li>Use as directed by manufacture Restriction on use: None known</li> <li>Mixture</li> </ul>	er for purposes directly related to water testing. 1
Name, address, and telephone number of the supplier:		Name, address, and telephone number of the manufacturer:
Lowry & Associates, Div. Inc.	of Chem-Aquascience,	Refer to supplier
5-1151 Gorham Street Newmarket, ON, Canada L3Y 8Y1		
Supplier's Telephone #	: (905) 836-0505, Hours 09:00 to	16:30
24 Hr. Emergency Tel #	: (613) 996-6666 (CANUTEC)	

### SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Purple liquid. Alcoholic.

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).

Hazard classification:

Flammable Liquids - Category 2 Serious eye damage/eye irritation - Category 2A Reproductive Toxicity - Category 2 Specific Target Organ Toxicity, Single Exposure - Category 1 Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

#### Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to the optic nerves (eyes) if swallowed. May cause drowsiness or dizziness.



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#### Precautionary statement(s)

Obtain special instructions before use.

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

Keep away from heat, open flames and hot surfaces. - No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breath mist or vapor.

Wash 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 and eye/face protection.

If exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Ethyl alcohol	Ethyl alcohol Ethyl hydrate	64-17-5	90.3
Methanol	Carbinol Methyl hydrate Methyl alcohol	67-56-1	8.9

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Ingestion	Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
Inhalation	<ul> <li>If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.</li> </ul>
Skin contact	<ul> <li>Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.</li> </ul>
Eye contact	<ul> <li>Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.</li> </ul>



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

: Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause slight or mild, transient irritation. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes damage to the optic nerves (eyes) if swallowed. Suspected of damaging the unborn child.

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

: Treat symptomatically. This product is a CNS depressant. Contains methanol.

## SECTION 5. FIRE-FIGHTING MEASURES Extinguishing media Suitable extinguishing media : Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use a solid water stream as it may scatter and spread fire.

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

: Highly flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

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

: Flammable Liquids - Category 2

#### Hazardous combustion products

: Carbon dioxide, carbon monoxide and 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.

#### Special fire-fighting procedures

: Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.
   Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.
   Methods and material for containment and cleaning up
   Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand,
  - vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.



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#### 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).
  - ÜS CERCLA Reportable quantity (RQ): Methanol (5000 lbs / 2270 kg)

#### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

	5	
	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Wear protective gloves and eye/face protection. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.
Conditions for safe storage	:	Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatible materials	:	Strong oxidizing agents. Ammonia

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Limits:**

<u></u>				
Chemical Name	ACGIH	ACGIH TLV		PEL
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Ethyl alcohol	N/Av	1000 ppm	1000 ppm (1900 mg/m³)	N/Av
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m³)	N/Av

#### **Exposure controls**

#### Ventilation and engineering measures

Respiratory protection	Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought 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. Advice should be sought from glove suppliers.
Eye / face protection	Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.
Other protective equipment	An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.
General hygiene consideration	S
	Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. 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.



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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Purple liquid.
Odour	:	Alcohol
Odour threshold	:	Not available.
рН	:	Neutral.
Melting/Freezing point	:	Not available.
Initial boiling point and boili	ng	range
	:	82.2°C (180°F)
Flash point	:	17.8°C (64.0°F)
Flashpoint (Method)	:	Closed cup
Evaporation rate (BuAe = 1)	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Lower flammable limit (% by	vc	l.)
	:	2%
Upper flammable limit (% by	vo	l.)
	:	12%
Oxidizing properties	:	
Explosive properties	:	-
Vapour pressure		40 mmHg
Vapour density	-	1.6
Relative density / Specific gr	av	-
	:	0.80
Solubility in water	:	Soluble
Other solubility(ies)	:	Not available.
Partition coefficient: n-octan	ol/	water or Coefficient of water/oil distribution
	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not applicable.
Viscosity	:	Not available.
Volatiles (% by weight)		99%
Volatile organic Compounds	•	•
		N/Av
Absolute pressure of contain	ner	
	:	N/Ap
Flame projection length		N/Ap
Other physical/chemical con	nm	ents
	:	None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY			
Reactivity	: Not normally reactive.		
Chemical stability	: Stable under the recommended storage and handling conditions prescribed.		
Possibility of hazardous	reactions		
	Hazardous polymerization will not occur.		
Conditions to avoid	: Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.		
Incompatible materials	Strong oxidizing agents. Ammonia		



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#### 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

: NO

#### **Potential Health Effects:**

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

Sign and symptoms Inhalation

	:	May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
Sign and symptoms ingestior	n	
	:	May be harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Contains methanol. Contains material which when ingested may be fatal or cause blindness.
Sign and symptoms skin	:	May cause mild skin irritation.
Sign and symptoms eyes	:	May cause severe eye irritation. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.
Potential Chronic Health Effe		
Mutagenicity		Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects. Not expected to be mutagenic in humans.
Carcinogenicity		
Reproductive effects & Terate		No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive enects & Teration		
	:	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 Methanol. Methanol may cause fetotoxic and teratogenic effects at doses which are not maternally toxic, based on animal data.
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	:	Eyes, skin, respiratory system, digestive system, central nervous system. Liver
		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 1 Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
		Causes damage to the optic nerves (eyes) if swallowed. May cause drowsiness or dizziness.
		Not classified as specific target organ toxicity-repeated exposure.



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#### Medical conditions aggravated by overexposure

Synergistic materials	<ul><li>Pre-existing skin, eye and respiratory disorders.</li><li>None known or reported by the manufacturer.</li></ul>
Toxicological data	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:
	ATE dermal = >2000 mg/kg

ATE dermal = >2000 mg/kg ATE oral = >2000 mg/kg ATE inhalation (vapours) = >50 mg/kg

	LC₅₀(4hr)	LD <sub>50</sub>	
Chemical name	<u>inh, rat</u>	(Oral, rat)	<u>(Rabbit, dermal)</u>
Ethyl alcohol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour)	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)

#### Other important toxicological hazards

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data. Do not allow material to contaminate ground water system.

#### Ecotoxicity data:

Ingredients		Toxicity to Fish		
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Ethyl alcohol	64-17-5	> 100 mg/L (Fathead minnow)	N/Av	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow)	None.

Ingredients	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Ethyl alcohol	64-17-5	5012 mg/L (Daphnia magna)	N/Av	None.		
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.		



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Ingredients	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Ethyl alcohol	64-17-5	1000 mg/L/96hr (Green algae)	N/Av	None.		
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.		

#### Persistence and degradability

: Readily biodegradable

**Bioaccumulation potential** : No data is available on the product itself.

	<u>Components</u>		Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
-	Ethyl alcohol (CAS 64-17-5)		- 0.31	Not expected to bioaccumulate.
	Methanol (CAS 67-56-1)		- 0.82 to - 0.64	<10 species: fish
N	lobility in soil	:	No data is available on the product itself.	

#### **Other Adverse Environmental effects**

: No data is available on the product itself.

### SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	:	See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
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.

#### SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol)	3	11	3
TDG Additional information	Must be a consumer-type product, in Limited Quantity size, no larger than 1 L per can. Package weight must exceed 30 kg gross.				
49CFR/DOT	UN1993	Flammable Liquids, n.o.s. (Ethanol)	3	II	
49CFR/DOT Additional information May be shipped as LIMITED QUANTITY when transported in cans no larger than 1 L, in packages not exc kg gross mass.					ot exceeding 30
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Ethanol)	3	II	3



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ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction							
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol)	3	II				
IMDG Additional information	Consult the IMDG regulations for exceptions.							
Special preca	autions for u	user : Keep away from heat, sparks and open fl	ame No smokin	g.	1			
Environment		: This product does not meet the criteria fo according to the IMDG Code. See ECOL	OGICAL INFORM	•				

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

: Not available.

## SECTION 15 - REGULATORY INFORMATION

### US Federal Information:

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

la sua d'a séa	CAS #		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: S 372, Specific To		
Ingredients	CAS # Inve	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Ethyl alcohol	64-17-5	Yes	None.	None.	No	N/Ap	
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	1%	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for 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:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
ingredients	040 #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethyl alcohol	64-17-5	Yes	Cancer (in alcoholic beverages) Developmental (in alcoholic beverages)	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	67-56-1	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes

#### **Canadian Information:**

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL.



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### International Information:

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

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ethyl alcohol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186

### **SECTION 16. OTHER INFORMATION**

Legend	<ul> <li>ACGIH: American Conference of Governmental Industrial Hygienists</li> <li>CA: California</li> <li>CAS: Chemical Abstract Services</li> <li>CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980</li> <li>CFR: Code of Federal Regulations</li> <li>CNS: Central Nervous System</li> <li>CSA: Canadian Standards Association</li> <li>DOT: Department of Transportation</li> <li>EPA: Environmental Protection Agency</li> <li>HMIS: Hazardous Materials Identification System</li> <li>HSDB: Hazardous Substances Data Bank</li> <li>IARC: International Agency for Research on Cancer</li> <li>Inh: Inhalation</li> <li>IUCLID: International Uniform Chemical Information Database</li> <li>LC: Lethal Concentration</li> <li>LD: Lethal Dose</li> <li>MA: Massachusetts</li> <li>MN: Minnesota</li> <li>N/Ap: Not Applicable</li> <li>N/Ay: Not Available</li> <li>NFPA: National Institute of Occupational Safety and Health</li> <li>NJ: New Jersey</li> <li>NTP: National Toxicology Program</li> <li>OSHA: Occupational Safety and Health Administration</li> <li>PA: Pennsylvania</li> <li>PEL: Permissible exposure limit</li> <li>RCRA: Resource Conservation and Recovery Act</li> <li>RI: Rhode Island</li> <li>RTECS: Registry of Toxic Effects of Chemical Substances</li> <li>SARA: Superfund Amendments and Reauthorization Act</li> <li>STEL: Short Term Exposure Limit</li> <li>TDG: Canadian Transportation of Dangerous Goods Act &amp; Regulations</li> <li>TLV: Threshold Limit Values</li> <li>TWA: Time Weighted Average</li> </ul>
	WHMIS: Workplace Hazardous Materials Identification System
References : Preparation Date (mm/dd/yyyy	Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015 (Chempendium, RTECs, HSDB, INCHEM). European Chemicals Agency, Classification Legislation, 2015 OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015 Material Safety Data Sheet from manufacturer
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#### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

## Prepared for:

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#### Prepared by:

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