

The Steel Company of Canada

# Light Oil Safety Data Sheet (SDS)

### Section 1 – Identification

1(a) Product Identifier Used on Label: Light Oil

1(b) Other Means of Identification: Crude Benzol, BTX, or BTXE

1(c) Recommended Use of the Chemical and Restrictions on Use: Chemical Feed Stock

1(d) Name, Address, and Telephone Number:

Stelco Inc.

386 Wilcox Street

Hamilton, ON L8L 8K5

Phone number : (905) 528-2511 (8:00 am to 5:00 pm)

1(e) Emergency Phone Number: 1-888-CAN-UTEC (226-8832) or 613-996-6666

### Section 2 – Hazard(s) Identification

**2(a) Classification of the Chemical: Light Oil** is considered a hazardous material according to the criteria specified in REACH [REGULATION (EC) No 1907/2006], CLP [REGULATION (EC) No 1272/2008], OSHA 29 CFR 1910.1200 Hazard Communication Standard and the Canadian Hazardous Products Regulations. The categories of Health Hazards as defined in <u>"GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)</u> have been evaluated. Refer to Section 3, 8 and 11 for additional information.

#### 2(b) Signal Word, Hazard Statement(s), Symbols and Precautionary Statement(s):

Hazard Symbol	Hazard Classification	Signal Word	Hazard Statement(s)
			Highly flammable liquid and vapor.
J.	Elementale Linuid Cotto en 2	Dangan	Toxic if inhaled.
<u>C3</u>	Flammable Liquid, Category 2	Danger	May be fatal if swallowed and enters airways.
			May cause genetic defects.
$\wedge$			May cause cancer.
a la la	Acute Toxicity, Inhalation - 3		May damage fertility or the unborn child.
1700 V	Acute Toxicity, initiatation - 5		May cause central nervous system depression, respiratory irritation, drowsiness or dizziness and
			damage to lungs, liver and blood cells.
	Aspiration Hazard - 1		Causes damage to blood and blood forming system through prolonged or repeated exposure.
~	Germ Cell Mutagenicity - 1B		Causes damage to olfactory system.
	Carcinogenicity -1A; Reproductive		Causes damage to lungs and central nervous system through prolonged or repeated inhalation
	Toxicity -1A		exposure.
	Single Target Organ Toxicity		Causes skin irritation. Causes serious eye irritation.
	(STOT) Single Exposure -2		May cause an allergic skin reaction.
	STOT Repeated Exposure -1		
	Skin Irritation - 2 Eye Irritation - 2A Skin Sensitization -1		

Prevention	Response	Storage/Disposal
Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. 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.	Store locked up. Store in well ventilated place. Keep cool. Dispose of contents in accordance with federal, provincial, state and local regulations.

	ction 2 – Hazard(s) Identifica	tion (continued)					
Precautionary Statement(s) (continued):							
Prevention	Response	Storage/Disposal					
<ul> <li>Wash thoroughly after handling. Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Do not eat, drink or smoke when using this product. Do not breathe gas/mist/vapor/spray.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>Use only outdoors or in well ventilated areas. Contaminated work clothing must not be allowed out of the workplace.</li> <li>2(c) Hazards Not Otherwise Classified: N</li> </ul>	wash it before reuse. Wash/shower wit irritation or rash occurs: Get medi In case of fire: Use foam, carbon die extinguish. If swallowed: Immediately call a poison induce vomitin If exposed, concerned or feel unwell: Ge call a poison center of	n skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash/shower with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. In case of fire: Use foam, carbon dioxide, dry chemical to extinguish. f swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. exposed, concerned or feel unwell: Get medical advice/attention, call a poison center or doctor.					
2(d) Unknown Acute Toxicity Statement (mixture): None Known							
	· · · · · · · · · · · · · · · · · · ·						
	on 3 – Composition/Informat	tion on Ingredients					
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3)	on 3 – Composition/Informat Synonyms), CAS Number and Other Id	dentifiers, and Concentrat					
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name	on 3 – Composition/Informat Synonyms), CAS Number and Other Io CAS Number	dentifiers, and Concentrat EC Number	% weight				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name	on 3 – Composition/Informat Synonyms), CAS Number and Other Io CAS Number 71-43-2	dentifiers, and Concentrat					
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene	on 3 – Composition/Informat Synonyms), CAS Number and Other Io CAS Number	dentifiers, and Concentrat EC Number	% weight				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene	on 3 – Composition/Informat Synonyms), CAS Number and Other Io CAS Number 71-43-2 108-88-3 91-20-3	EC Number           200-753-7           203-625-9           202-049-5	% weight           60-85           3-25           0-6				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5	EC Number           200-753-7           203-625-9           202-049-5           202-851-5	% weight           60-85           3-25           0-6           0-3				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6	% weight           60-85           3-25           0-6           0-3           0-3				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene	Composition/Informat           Synonyms), CAS Number and Other Io           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6           75-15-0	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6           200-843-6	% weight           60-85           3-25           0-6           0-3           0-3				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene Carbon Disulfide	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6	% weight           60-85           3-25           0-6           0-3           0-3				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene Carbon Disulfide Thiophene m,-Xylene	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6           75-15-0           110-02-1           108-38-3	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6           200-843-6           203-729-4           203-576-3	% weight           60-85           3-25           0-6           0-3           0-3           0-3           0-1           0-4.8				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene Carbon Disulfide Thiophene m,-Xylene	Composition/Informat           Synonyms), CAS Number and Other Io           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6           75-15-0           110-02-1	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6           200-843-6           203-729-4	% weight           60-85           3-25           0-6           0-3           0-3           0-3           0-1				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6           75-15-0           110-02-1           108-38-3	EC Number           200-753-7           203-625-9           202-049-5           202-851-5           202-393-6           200-843-6           203-729-4           203-576-3	% weight           60-85           3-25           0-6           0-3           0-3           0-3           0-1           0-4.8				
Secti 3(a-c) Chemical Name, Common Name ( 65996-78-3) Chemical Name Benzene Toluene Naphthalene Styrene, monomer Indene Carbon Disulfide Thiophene m,-Xylene P,Xylene	Composition/Informat           Synonyms), CAS Number and Other Id           CAS Number           71-43-2           108-88-3           91-20-3           100-42-5           95-13-6           75-15-0           110-02-1           108-38-3           106-42-3	EC Number           200-753-7           203-625-9           202-049-5           202-393-6           200-843-6           203-576-3           203-396-5	% weight           60-85           3-25           0-6           0-3           0-3           0-1           0-4.8           0-4.8				

# Section 4 – First-aid Measures

4(a) Description of Necessary Measures: If exposed, concerned or feel unwell: Get medical advice/attention, call a poison center or doctor.

- Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor.
- Eye Contact: 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.
- Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash/shower with plenty of water. If skin irritation occurs: Get medical advice/attention.
- Ingestion: If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

#### 4(b) Most Important Symptoms/Effects, Acute and Delayed (Chronic):

#### Acute Effects:

- Inhalation: May produce airway irritation. Systemic effects may include headache, dizziness, and loss of coordination, collapse and death. Systemic effects may include CNS excitation and cardiovascular depression. Inhalation of coal tar light oil may cause bronchial irritation, cough, hoarseness and/or pulmonary edema. Repeated or prolonged exposure may cause irritation of the respiratory tract, nausea, dizziness, headache, staggering, anorexia, and central nervous system problems. Inhalation of excessive concentrations of this product may cause confusion, convulsions, and abdominal pain. Kidney and/or liver functions may be disturbed.
- Eye: Direct contact may produce irritation. Vapors may be moderately irritating. Irritation and reversible corneal injury may occur.
- Skin: May cause moderate to severe irritation, with prolonged contact resulting in dryness and defatting, characterized by dermatitis, dryness, blistering and/or redness. Material can be absorbed through the skin producing systemic toxicity and possible death
- Ingestion: Unlikely route of exposure. If ingested, may cause headache, drunkenness, nausea, vomiting, weakness, convulsions, unconsciousness and coma. Aspiration of this material into the lungs can cause chemical pneumonia.

4(c) Immediate Medical Attention and Special Treatment: If quantity ingested is 1.0 ml/kg or greater, careful gastric lavage may be indicated, being careful to avoid aspiration.

### Section 5 – Fire-fighting Measures

5(a) Suitable (and unsuitable) Extinguishing Media: In case of fire: Use foam, carbon dioxide, dry chemical to extinguish. Water may be ineffective.

5(b) Specific Hazards Arising from the Chemical: Heat/fire conditions: vapors form flammable/explosive mixtures in air. Vapors heavy, may travel (ground, pit, sewer) to ignition source-flash. Open/closed containers may contain flammable/explosive vapors. Under fire conditions, may emit irritant/toxic gas and/or fumes. Closed containers may explode when exposed to extreme heat (fire). The hazardous combustion products that may be generated include: Carbon Dioxide, Carbon Monoxide, and toxic organic acids.

5(c) Special Protective Equipment and Precautions for Fire-fighters: Self-contained NIOSH-approved respiratory protection and full protective clothing should be worn when fumes and/or smoke from fire are present. Heat and flames cause emittance of acrid smoke and fumes. Benzene is considered a severe explosion hazard. Do not release runoff from fire control methods to sewers or waterways. Firefighters should wear full facepiece self-contained breathing apparatus and chemical protective clothing with thermal protection. Direct water stream will scatter and spread flames and, therefore, should not be used.

### **Section 6 - Accidental Release Measures**

6(a) Personal Precautions, Protective Equipment and Emergency Procedures: Remove ignition sources and ventilate enclosed places. Cleanup personnel should wear a respirator and appropriate chemical/thermal protective clothing dictated by the magnitude of the spill or leak. If necessary (for larger quantities), contain spill with sand or earth to prevent entry into sewers and waterways. This product is a US EPA defined ignitable hazardous waste. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, provincial, state, and local regulations.

6(b) Methods and Materials for Containment and Clean Up: Absorb as much of the spill as possible with dry sand, earth, or other suitable material. Remaining benzene must be flushed with large amounts of water. Do not flush into sewer or other confined space due to explosion hazards. Reportable spills must be reported to the National Response Center (1-800-424-8802). Follow applicable regulations (e.g. 29 CFR 1910.120) and all other pertinent federal, provincial, state and local requirements.

# Section 7 - Handling and Storage

7(a) Precautions for Safe Handling: Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Obtain special instructions before use. Take precautionary measures against static discharge. Do not handle until all safety precautions have been read and understood. Use only outdoors or in well ventilated areas. Do not breathe gas/mist/vapor/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid direct contact on skin, eyes or on clothing. Handle and use in accordance with OSHA 29 CFR1910.106 or local codes. Observe proper industrial hygiene practices. Comply with the Ontario Designated Substances Regulation, O. Reg. 490/09, the OSHA Benzene Standard, 29 CFR 1910.1028, and all other applicable regulatory standards. Emergency safety showers and eye wash stations should be present.

7(b) Conditions for Safe Storage, Including any Incompatibilities: Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep cool. Keep container tightly closed. Store locked up. Use only outdoors or in a well ventilated area. Store in a well-ventilated place. Control all ignition sources (including smoking). When transporting, use electrically ground storage and transport piping. Store in areas/buildings designed to comply with OSHA 1910.106. Protect from physical damage.

# Section 8 - Exposure Controls / Personal Protection

8(a) Occupational Exposure Limits (OELs): The following exposure limits are offered as reference, for an experienced industrial hygienist to review. Ingredients **Ontario** TWA<sup>1</sup> ACGIH TLV<sup>2</sup> **OSHA PEL<sup>3</sup>** NIOSH REL<sup>4</sup> **IDLH**<sup>±</sup> Benzene 0.5 ppm, skin 0.5 ppm, skin  $0.1 \text{ ppm} (0.32 \text{ mg/m}^3)$ 500 ppm 1.0 ppm "STEL" 2.5 ppm "STEL" 2.5 ppm "STEL" 1.0 ppm (3.2 "STEL" 5.0 ppm mg/m<sup>3</sup>) Toluene 100 ppm (375 mg/m<sup>3</sup>) 20 ppm 20 ppm 200 ppm 500 ppm "STEL" 150 ppm (560 "C" 300 ppm  $mg/m^3$ ) 35 ppm  $50 \text{ ppm} (215 \text{ mg/m}^3)$ Styrene, 20 ppm 100 ppm 700 ppm "STEL" 100 ppm "STEL" 40 ppm "STEL" 100 ppm (425 monomer "C" 200 ppm  $mg/m^3$ ) 10 ppm, skin  $10 \text{ ppm} (50 \text{ mg/m}^3)$ 10 ppm, skin Naphthalene  $10 \text{ ppm} (50 \text{ mg/m}^3)$ 250 ppm "STEL" 15 ppm "STEL" 15 ppm "STEL" 15 ppm (75  $mg/m^3$ Indene 5 ppm 5 ppm NE  $10 \text{ ppm} (45 \text{ mg/m}^3)$ NE 1 ppm, skin Carbon 1 ppm, skin 20 ppm-TWA "C" 30 ppm  $1.0 \text{ ppm} (3 \text{ mg/m}^3)$ 500 ppm Disulfide "STEL" 10 ppm (30  $mg/m^3$ ) Thiophene NE NE NE NE NE m-,o-, p-100 ppm 100 ppm 100 ppm (435 mg/m<sup>3</sup>) 100 ppm (435 mg/m<sup>3</sup>) 900 ppm Xylene "STEL" 150 ppm "STEL" 150 ppm (655 "STEL" 150 ppm mg/m<sup>3</sup>)

# Section 8 - Exposure Controls / Personal Protection (continued)

#### 8(a) Occupational Exposure Limits (OELs) (continued):

NE - None Established

- 1. Time-Weighted Average (TWA) limits established by the Ontario Ministry of Labour are 8-hour TWA concentrations unless otherwise noted. A Short Term Exposure Limit (STEL) is defined as the maximum concentration to which workers can be exposed for a short period of time (15 minutes) for only four times throughout the day with at least one hour between exposures.
- 2. Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH) are 8-hour TWA concentrations unless otherwise noted. ACGIH TLVs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes. A Short Term Exposure Limit (STEL) is defined as the maximum concentration to which workers can be exposed for a short period of time (15 minutes) for only four times throughout the day with at least one hour between exposures.
- 3. OSHA PELs (Permissible Exposure Limits) are 8-hour TWA (Time-Weighted Average) concentrations unless otherwise noted. A ("C") designation denotes a ceiling limit, which should not be exceeded during any part of the working exposure unless otherwise noted. An Action level (AL) is used by OSHA and NIOSH to express a health or physical hazard. They indicate the level of a harmful or toxic substance/activity, which requires medical surveillance, increased industrial hygiene monitoring, or biological monitoring. Action Levels are generally set at one half of the PEL but the actual level may vary from standard to standard. The intent is to identify a level at which the vast majority of randomly sampled exposures will be below the PEL.3. The National Institute for Occupational Safety and Health Recommended Exposure Limits (NIOSH-REL)- Compendium of Policy and Statements. NIOSH, Cincinnati, OH (1992). NIOSH is the federal agency designated to conduct research relative to occupational safety and health. As is the case with ACGIH TLVs, NIOSH RELs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.
- 4. The National Institute for Occupational Safety and Health Recommended Exposure Limits (NIOSH-REL) Compendium of Policy and Statements. NIOSH, Cincinnati, OH (1992). NIOSH is the U.S. federal agency designated to conduct research relative to occupational safety and health. As is the case with ACGIH TLVs, NIOSH RELs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.
- 5. The National Institute for Occupational Safety and Health Recommended Exposure Limits (NIOSH-REL) Compendium of Policy and Statements. NIOSH, Cincinnati, OH (1992).NIOSH is the U.S. federal agency designated to conduct research relative to occupational safety and health. As is the case with ACGIH TLVs, NIOSH RELs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.

**8(b) Appropriate Engineering Controls:** Use controls as appropriate to minimize fire risk and inhalation of vapors or mists as well as any byproducts of combustion. Provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust is necessary for use in enclosed or confined spaces. Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations.

#### 8(c) Individual Protection Measures:

• **Respiratory Protection**: Do not breathe dusts/fume/gas/mist/vapor/spray. Seek professional advice prior to respirator selection and use. In the US, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH-approved respirator. In Ontario, follow CSA Standard Z94.4-11 "Selection Care and Use of Respirators" or the "NIOSH Guide to the Selection and Use of Particulate Respirators (1996)" for additional information. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Concentration in air of the various contaminants determines the extent of respiratory protection needed. Half-mask negative- pressure, air-purifying respirator equipped with organic vapor cartridge is acceptable for concentrations up to 10 times the exposure limit. Full-face negative-pressure air purifying both negative-pressure and powered air respirators is limited. Use a positive-pressure-demand, full-face, supplied air respirator or self-contained breathing apparatus (SCBA) for concentrations above 50 times the exposure limit. If exposure is above the IDLH (Immediately dangerous to life or health) for any of the constituents, or there is a possibility of an uncontrolled release or exposure levels are unknown, then use a positive-demand, full-face, supplied air respirator with escape bottle or SCBA.

Warning! Air-purifying respirators both negative-pressure, and powered-air do not protect workers in oxygen-deficient atmospheres.

- Eyes: Wear appropriate eye protection to prevent eye contact. Use safety glasses with side shields or chemical goggles.
- Skin: Wear appropriate personal protective clothing to prevent skin contact. Chemical resistance data for barrier metals used should be determined based on use. Polyvinyl alcohol and Viton® protective garments have been suggested by the American Conference of Governmental Industrial Hygienist (ACGIH) Guidelines for the Selection of Chemical Protective Clothing for protection against materials of this chemical class. As required, industrial resistant flexible-type gloves (Viton®, neoprene, silver shield or equal). Wear industrial-type work clothing and safety footwear. A face-shield should be used, when appropriate, to prevent contact of eyes and face. Full body covering should be used to prevent skin contact depending on work conditions.
- Other Protective Equipment: An eyewash fountain and deluge shower should be readily available in the work area.

#### Section 9 - Physical and Chemical Properties

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9(a) Appearance (physical state, color, etc.): Yellow Liquid	9(j) Upper/lower Flammability or Explosive Limits: ND
9(b) Odor: Sweet odor	9(k) Vapor Pressure: 75 mm Hg (Benzene)
9(c) Odor Threshold: NA	<b>9(I) Vapor Density (Air = 1):</b> 2.7 (Benzene)
9(d) pH: NA	9(m) Relative Density: 0.87 [Specific Gravity (H2O=1 at 20°C/60°F)]
9(e) Melting Point/Freezing Point: ND	9(n) Solubility(ies): ): 0.01% Water Soluble
9(f) Initial Boiling Point and Boiling Range: 79.6°C (175.3°F)	9(o) Partition Coefficient n-octanol/water: ND
9(g) Flash Point: Minimum Flashpoint /15.5 °C (59.9 °F) (closed cup)	9(p) Auto-ignition Temperature: ND
9(h) Evaporation Rate: ND	9(q) Decomposition Temperature: ND
9(i) Flammability (solid, gas): ND	9(r) Viscosity: ND
NA - Not Applicable	
ND - Not Determined for product as a whole	

# Section 10 - Stability and Reactivity

**10(a) Reactivity:** Not Determined (ND)

**10(b)** Chemical Stability: Light Oil is stable under normal storage and handling conditions.

10(c) Possibility of Hazardous Reaction: None Known

10(d) Conditions to Avoid: Exposure to heat, sparks or flames.

**10(e) Incompatible Materials:** Strong oxidizing agents, many Fluorides, Chlorides, and Perchlorates, Nitric acid, and Chromic anhydride. **10(f) Hazardous Decomposition Products:** Carbon monoxide and Carbon dioxide.

### **Section 11 - Toxicological Information**

**11(a-j) Information on Toxicological Effects:** The following toxicity data has been determined for **Light Oil** by using the information available for its components applied to the guidance on the preparation of an SDS under the GHS requirements of WHMIS, OSHA and the EU CPL:

	Hazard Category		Hazard			
Hazard Classifications	EU	WHMIS /OSHA	Symbols	Signal Word	Hazard Statement	
Acute Toxicity Hazard (covers Categories 1-4)	Not Rated	3		Danger	Toxic if inhaled.	
Skin Irritation (covers Categories 1A, 1B, and 2)	2	2 <sup>b</sup>		Warning	Causes skin irritation.	
<b>Eye Damage/Irritation</b> (covers Categories 1, 2A and 2B)	2	2A <sup>c</sup>		Warning	Causes serious eye irritation.	
Skin/Dermal Sensitization (covers Category 1)	1	1 <sup>d</sup>		Warning	May cause an allergic skin reaction.	
Aspiration Hazard (Category 1)	1	1°		Danger	May be fatal if swallowed and enters airways.	
Germ Cell Mutagenicity (covers Categories 1A, 1B and 2)	1B	$1B^{f}$		Danger	May cause genetic defects.	
<b>Carcinogenicity</b> (covers Categories 1A, 1B and 2)	1A	1A <sup>g</sup>		Danger	May cause cancer.	
<b>Toxic Reproduction</b> (covers Categories 1A, 1B and 2)	1B	$1B^{h}$		Danger	May damage fertility or the unborn child.	
Specific Target Organ Toxicity (STOT) Following Single Exposure (covers Categories 1-3)	2	2 <sup>i</sup>		Warning	May cause central nervous system depression, respiratory irritation drowsiness or dizziness and damage to lungs, liver and blood cells.	
<b>STOT following Repeated Exposure</b> (covers Categories 1 and 2)	1	lì		Danger	Causes damage to blood and blood forming system through prolonged or repeated exposure. Causes damage to olfactory system. Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure.	

Toxicological data listed below are presented regardless to classification criteria. Individual hazard classification categories where the toxicological information has met or exceeded a classification criteria threshold are listed above.

a. No LC50 or LD $_{50}$  has been established for Light Oil. The following data has been determined for the components:

- Benzene: LD<sub>50</sub> (rat) 3.8 (2.9-4.8) and 5.6 (4.0-7.8) ml/kg young
  - and old resp. LD<sub>50</sub> (rabbits): > 9.4 ml/kg (abraded skin)
    - $LC_{50}$  (female rat) > 13700 ppm
- Carbon disulfide: Rat LC<sub>50</sub> = 10.35 mg/L (REACH) Mouse 2 hr LC50 = 10 mg/L (IUCLID)
- Indene: Rat LD<sub>50</sub> = 481 mg/kg (REACH)
- Naphthalene: Mouse LD<sub>50</sub> = 397 827 mg/kg (REACH) Rat LD<sub>50</sub> > 2500 mg/kg (REACH and IUCLID)
   Rat LC<sub>50</sub> > 77.7 ppm (> 0.4 mg/L) REACH and Toxnet)
- Styrene: Rat  $LC_{50} > 2.13 \text{ mg/L}$  (REACH)
- **Toluene:**  $LD_{50}$  (rat) > 5000 mg/kg (REACH)
- $\begin{array}{c} \text{LD}_{50} \ (\text{Rabbit}) > 5000 \ \text{mg/kg} \ (\text{REACH}) \\ \text{LD}_{50} \ (\text{Rabbit}) > 5000 \ \text{mg/kg} \ (\text{REACH}) \\ \text{LC}_{50} \ (\text{rat}) > 20 \ \text{mg/L} \ (\text{REACH}) \ \text{LD}_{50} \ (\text{rat}) \ \text{i.p.} = 1332 \ \text{mg/kg} \\ (\text{IUCLID}) \end{array}$
- Thiophene: Mouse LD<sub>50</sub> = 420 mg/kg)
  - Guinea Pig LD<sub>50</sub> >20 ml/kg
  - Mouse ip LD<sub>50</sub> =100 mg/k
  - Xylene: Rabbit LD<sub>50</sub> > 5000 mg/kg (REACH)
  - (net) Rat 4 hr  $LC_{50} = 6700 \text{ ppm}$

### **Section 11 - Toxicological Information**

#### 11(a-j) Information on Toxicological Effects: (continued)

b. No Skin (Dermal) Irritation data available for Light Oil as a mixture or its individual components.

- Benzene and Indene: Irritating to the skin.
- Toluene: Toluene is irritating to rabbit skin (REACH and IUCLID).
- Styrene: Rabbit Moderate erythema and slight necrosis. Blistering and hair loss. (REACH) Rabbit slightly to moderately irritating.
- Carbon Disulfide: Highly irritating in rabbits, causes human irritation.
- Xylene: Moderately irritating.

c. No Eye Irritation data available for Light Oil as a mixture. The following Eye Irritation information was found for the components:

- Benzene and Indene: Irritating to the eyes.
- Toluene: Slight irritation (REACH and IUCLID) Severe eye irritant in humans (NLM HSD).
- Styrene: Rabbit moderate conjunctival irritation with perceptible necrosis of the lens. (REACH) Rabbit moderately irritating (IUCLID).
- Carbon Disulfide Highly irritating in rabbits.
- d. No Skin (Dermal)/Respiratory Sensitization data available for Light Oil as a mixture. The following Skin (Dermal) Sensitization information was found for the components:
  - Indene: Sensitizer in humans. Dermal sensitizer (RTECS).

e. No Aspiration Hazard data available for Light Oil as a mixture. The following Aspiration Hazard information was found for the components.

- Benzene: Respiratory aspiration hazard.
- Toluene: May be fatal if enters respiratory tract.
- Indene: Results in chemical pneumonitis, edema and hemorrhage.
- f. No Germ Cell Mutagenicity data available for Light Oil as a mixture. The following Mutagenicity and Genotoxicity information was found for the components:
- Benzene: Positive In vitro and In vivo clastogenicity results.
- g. Carcinogenicity: IARC, NTP, and OSHA do not list Light Oil as carcinogens. The following Carcinogenicity information was found for the components:
  - Benzene: ACGIH, OSHA, IARC, and NTP consider Benzene (the major component of Light Oil) to be a known carcinogen. Case reports and cohort studies have suggested a relationship between overexposures to Benzene and the occurrence of various types of leukemia.
  - Naphthalene: Rat 105 week inhalation Clear evidence of carcinogenicity increases in respiratory epithelia adenoma and olfactory epithelial neuroblastoma. NTP and IARC list as category 2B.
- h. No Toxic Reproduction data available for Light Oil as a mixture. The following Toxic Reproductive information was found for the components:
  - Benzene: Both reproductive and teratogenicity positive results found.
  - Toluene: Low incidence of malformations at doses causing maternal toxicity.
  - Carbon Disulfide: Results of studies suggest a direct effect on Testes with dose related decrease in plasma testosterone.
- i. No Specific Target Organ Toxicity (STOT) following a Single Exposure data available for Light Oil as a mixture. The following STOT following a Single Exposure data was found for the components:
  - Benzene: Central and peripheral nervous system Depression, lung liver (vacuoled hepatocytes) and red blood cells. Mild to moderate respiratory tract irritation expected with breathing vapors.
  - Carbon Disulfide: Mood changes, dizziness
  - Indene: Respiratory irritation.
  - Naphthalene: Eye and skin irritation (OSHA).
  - Toluene: Headache, dizziness and impaired performance.
  - Styrene: Eyes, skin, respiratory system.
- j. No Specific Target Organ Toxicity (STOT) following Repeated Exposure data was available **for Light Oil** as a whole. The following STOT following Repeated Exposure data was found for the components:
  - Benzene: Hematopoietic system, spleen, and liver damage. Induced blood dyscrasias in humans were characterized by erythrocytic anisocytosis and poikilocytosis, anemia, decreased hemoglobin, and reduced hematocrit. In addition, benzene is a human carcinogen.
  - Toluene: Ataxia, hypothermia, leucocyte decrease in female rats and increase liver and kidney weights.
  - Naphthalene: Olfactory lesions and effects on nasal turbinates, cataracts, jaundice, kidney and liver damage (OSHA).
  - Styrene: Respiratory system, CNS, liver and reproductive system damage.
  - Indene: Liver, kidney, spleen.
  - Carbon Disulfide: Neurotoxicity, chronic effects on heart, liver, kidney, ocular changes and skin (OSHA).

The above toxicity information was determined from available scientific sources to illustrate the prevailing posture of the scientific community. The scientific resources includes: The American Conference of Governmental Industrial Hygienist (ACGIH) Documentation of the Threshold Limit Values (TLVs) and Biological Exposure indices (BEIs) with Other Worldwide Occupational Exposure Values 2009, The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP) updated documentation, the World Health Organization (WHO) and other available resources, the International Uniform Chemical Information Database (IUCLID), European Union Risk Assessment Report (EU-RAR), Concise International Chemical Assessment Documents (CICAD), European Union Scientific Committee for Occupational Exposure Limits (EU-SCOEL), Agency for Toxic Substances and Disease Registry (ATSDR), Hazardous Substance Data Bank (HSDB), and International Programme on Chemical Safety (IPCS).

# Section 11 - Toxicological Information (continued)

The following health hazard information is provided regardless to classification criteria and is based on the individual component(s):

#### Acute Effects by Component:

- Benzene: Excessive exposures may cause irritation to eyes, skin, nose, throat, lungs, and respiratory tract. Central nervous system effects may occur due to excessive exposures. Excessive exposures may result in headaches, nausea, sleep disturbances, excitability, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.
- Toluene: Excessive exposures may cause irritation to eyes, nose, throat, lungs, and respiratory tract. Central nervous system effects may occur. Excessive exposures may result in headaches, nausea dizziness, loss of balance and coordination, unconsciousness, and coma as well as respiratory failure and/or death.
- Naphthalene: Excessive exposures may cause irritation to eyes, nose, throat and lungs, and respiratory tract. Central nervous system effects may occur. Excessive exposures may also result in dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.
- Styrene, Monomer: Excessive inhalation may cause respiratory swelling and pneumonitis. Excessive exposures may cause narcotic effects including headache, dizziness, weakness, unconsciousness, and possible death.
- **Indene:** Data or studies as to human potential overexposure have not been reported in the literature. However, by analogy between chemical structure and toxicological effects of related monoaromatic hydrocarbons (not specified), excessive inhalation of indene vapors can be expected to cause irritation to the mucous membrane and lungs, skin irritation, pneumonitis, pulmonary edema and hemorrhage.
- Carbon Disulfide: Excessive quantities of carbon disulfide may be fatal if ingested or inhaled. Serious health hazard, affecting the central nervous system. Carbon disulfide is readily absorbed through the skin. Sufficient material may be absorbed through the skin to be fatal. Excessive exposures may cause reproductive damage, including impairing fertility. Skin irritant.
- Xylene: Excessive exposures may cause irritation to eyes, nose, throat, lungs, and respiratory tract. Central nervous system effects may occur. May result in headaches, nausea, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death. Repeated excessive exposures may cause liver and/or kidney effects or damage.

#### Delayed (chronic) Effects by Component:

- Benzene: IARC Group I- Human Cancer Hazard. Early signs and symptoms of chronic overexposure include effects on CNS and the GI tract (headache, loss of appetite, drowsiness, nervousness, and pallor) but the major manifestation of toxicity is aplastic anemia. Bone marrow depression may occur resulting in leucopoenia, anemia, or thrombocytopenia (leukemogenic action). With continued overexposure the disease states may progress to pancytopenia resulting from bone marrow aplasia. Evidence has linked benzene in the etiology of leukemia.
- **Toluene**: Chronic overexposure has been associated with headache, lassitude, and nausea, loss of coordination, memory loss, and loss of appetite along with enlargement of the liver, a moderate decrease in red blood cells, and reduction in white blood cells, as well as palpitations, weakness, and impaired reaction time may occur. The neurological effects of chronic overexposure to high levels of toluene gradually progress to an irreversible state. Besides effects on behavior and intelligence, degeneration of the optic nerve and nerve deafness have also been reported. Dermatitis from repeated contact with the skin may also occur. Overexposure to toluene may cause risk of harm to the unborn child.
- Naphthalene: Chronic exposure of workers to naphthalene has been reported to cause cataracts and retinal hemorrhage. Exposure may also result in headache, loss of appetite, and nausea. Kidney damage has also been reported in connection with chronic naphthalene exposure.
- Styrene, Monomer: Chronic excessive exposures may cause significant reduction in color discrimination and/or color perception
- Indene: The substance may be toxic to kidneys, liver, spleen, upper respiratory tract, skin and eyes. Repeated or prolonged overexposure to the substance can produce target organs damage.
- Carbon Disulfide: Chronic overexposure to carbon disulfide has resulted primarily in neurological and cardiovascular effects, gastrointestinal and immune insufficiency problems as well as possible risk of impaired fertility and harm to the unborn child have also been reported.
- Xylene: Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage. Repeated exposure can damage bone marrow, causing low blood cell count. May damage the liver and kidneys.

# **Section 12 - Ecological Information**

12(a) Ecotoxicity (aquatic & terrestrial): No Data Available for Light Oil as sold/shipped. However, individual components of the product when processed have been found to be toxic to the environment.

- Benzene: LC<sub>50</sub> Lepomis macrochirus (bluegill sunfish) 20 mg/l/24 to 48 hr /Conditions of bioassay not specified/; LC<sub>50</sub> Salmo trutta (brown trout yearlings) 12 mg/l/1 hr (static bioassay).
- Toluene: LC<sub>50</sub> Pimephales promelas (fathead minnow) 34.27 mg/l 96 hr (95% Confidence Limits= 22.83-45.86 mg/l) /Conditions of bioassay not specified/ LC<sub>50</sub> Daphnia magna, (water flea) 313 mg/l 48 hr /Conditions of bioassay not specified.
- Naphthalene: LC<sub>50</sub> Pimephales promelas (fathead minnow) 6.08 (5.74-6.44) mg/l 72 & 96 hr, /flow-through bioassay; LC<sub>50</sub> Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr Conditions of bioassay not specified.
- Carbon Disulfide: LC50: 135,000/96H; Fish-Western mosquitofish
- Xylene: LC50: 75,000 µg/L/24H; Fish-Goldfish.

12(b) Persistence & Degradability: Vapor-phase benzene and toluene are degraded in the atmosphere by reaction with photochemically- produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 13 days and 3 days for benzene and toluene respectively.

12(c) Bioaccumulative Potential: No Data Available for Light Oil or individual components

12(d) Mobility (in soil): No Data Available for Light Oil as a whole. However, benzene and toluene are have been estimated to be moderately to highly mobile in soil. Evaporation is expected to be the primary loss mechanism from water. Benzene and toluene are not expected to adsorb to sediment and suspended solids in water. Volatilization half-lives for a model river and model lake have been estimated to be 1 hr and 3.5 days, respectively for benzene and 1 hour and 4 days, respectively for toluene.

Section 12 - Ecological Information (continued)					
12(e) Other Adverse Effects: None Known					
Additional Information:					
Hazard Category: Acute 2, Chronic 2	S	Signal Word: No Sign	nal Word		
Hazard Symbol:					
Hazard Statement: Toxic to aquatic life with long last	ing effects				
Secti	on 13 - Disposa	l Consideration	IS		
an EPA hazardous waste due to Ignitability (D001). A (D018) as determined by the TCLP test. Benzene ha dispose of in accordance with federal, provincial, stat	<b>Disposal:</b> Dispose of contents/container in accordance with local/regional/international regulations. Upon disposal Coal Tar Light Oil may becom an EPA hazardous waste due to Ignitability (D001). Also, it may be a characteristic waste due to leachable benzene content of greater than 0.5 ppr (D018) as determined by the TCLP test. Benzene has a RCRA waste number of D018 and a CERCLA reportable quantity of 10 lbs. Recycle of dispose of in accordance with federal, provincial, state and local regulations. Empty containers may retain product residue including flammable of explosive vapors. Do not cut, drill, grind or weld on or near full, partially full or empty product containers.				
<b>Container Cleaning and Disposal:</b> Follow applicable WasteCatalogue (EWC): 05-06-99 (waste form pyroly				precautions. European	
Please note this information is for Light Oil in its original	form. Any alterations	can void this information	on.		
Sect	ion 14 - Transp	ort Information	1		
<b>14 (a-g) Transportation Information:</b> <b>US Department of Transportation (DOT)</b> under 49 federal, state, and local laws and regulations that apply				nable Liquid). All	
<ul> <li>Shipping Name: RQ, UN1136, Coal tar distillates, flammable (contains benzene, toluene) Class 3 PGII Minimum Flashpoint 15.5°C (closed cup)</li> <li>Shipping Symbols: NA Hazard Class: Flammable UN No.: 1136</li> <li>Packing Group: II</li> <li>DOT/ IMO Label: 3/Flammable Liquid Special Provisions (172.102): IB2, T4, TP1</li> </ul>	Packaging Author a) Exceptions: 1: b) Non-bulk: 202 c) Bulk: 242	50	Quantity Limitations:a) Passenger, Aircraft, or Railcar: 5 Litersb) Cargo Aircraft Only: 60 LitersVessel Stowage Requirements:a) Vessel Stowage: BDOT Reportable Quantities: See Section 15		
International Maritime Dangerous Goods (IMDG)	and the Regulations	Concerning the Inte	rnational Carriage of Dan	gerous Goods by	
Rail (RID) classification, packaging and shipping requ					
Regulations Concerning the International Carriage	<u> </u>	s by Road (ADR) reg		•	
Shipping Name: RQ, UN1136, Coal tar distillates,	Packaging:		Portable Tanks & Bulk	Containers:	
flammable (contains benzene, toluene) Class 3 PGII Minimum Flashpoint 15.5°C (closed cup)	a) Packing Instructions: P001, IBC03, LP01, R001		a) Instructions: T4	TD2 TD20	
Classification Code: F1	b) Special Packing Provisions: NA		b) Special Provisions:	112, 1129	
UN No.: UN 1136	c) Mixed Packing Provisions: MP19				
Packing Group: II	c) which I acking I tovisions. Whiti?				
ADR Label: 3					
Special Provisions: NA					
Limited Quantities: LQ7					
International Air Transport Association (IATA) do					
Shipping Name: RQ, UN1136, Coal tar	Passenger & Cargo Aircraft		Cargo Aircraft Only Pkg Inst: 307	Special Provisions: A3	
distillates, flammable (contains benzene, toluene) <b>Class/Division:</b> 3	Limited Quantity (EQ)		Max Net Qty/Pkg: 60 L	ERG Code: 3 L	
Hazard Label (s): Flammable Liquid					
UN No.: UN 1136	Pkg Inst: Y305	Pkg Inst: 305			
Packing Group: II	Max Net Qty/Pkg:	Max Net Qty/Pkg:			
Excepted Quantities (EQ): E2	1 Liter (L	5 L			
Pkg Inst – Packing Instructions Max Net Qty/Pkg	- Maximum Net Quant	ity per Package	ERG – Emergency Response	Drill Code	

#### Section 14 - Transport Information (continued)

Light Oil does not have a federal Transport Dangerous Goods (TDG) classification as a whole. However, individual components of the product have classification:

Ingredients	<b>TDG Classification</b>	
Benzene	3-II	
Toluene	3-II	
Naphthalene	4.1-II	
Styrene, monomer	3-III	
Indene	3-III	
Xylene	3-III	

### **Section 15 - Regulatory Information**

**Regulatory Information**: *The following listing of regulations relating to a Stelco product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities*. This product and/or its constituents are subject to the following regulations:

SARA Potential Hazard Categories: Immediate Acute Health Hazard; Delayed Chronic Health Hazard; Fire Hazard.

Section 313 Supplier Notification: The product, Light Oil contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

CAS #	Chemical Name	Percent by Weight
71-43-2	Benzene	60-85
108-88-3	Toluene	3-25
91-20-3	Naphthalene	0-6
95-13-6	Styrene, monomer	0-3
108-38-3	m-Xylene	0-4.8
75-15-0	Carbon disulfide	0-3
106-42-3	p-Xylene	0-4.8
95-47-6	o-Xvlene	0-12

**State Regulations:** The product, **Light Oil** as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations:

California Prop. 65: Light Oil as a whole is not listed. However, individual components of the product are listed.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

# **Section 16 - Other Information**

Prepared By: Stelco Inc.

#### **Revision History:**

6/30/2017 - Update to Stelco

1/31/2014 - Format revision

7/21/2013 - Update to OSHA HAZ COM 2012

5/03/2011 - Update format

7/31/2010 - Update of content and format to comply with GHS

9/22/2008 - Updated section 13 to eliminate incorrect RCRA code

#### Additional Information:

#### Hazardous Material Identification System (HMIS) Classification

Health Hazard	2			
Fire Hazard	3			
Physical Hazard	1			
HEALTH = 2, Moderate				
FIRE = 3, $HIGH$				
REACTIVITY = 1, Slight (Normal)	ly Stable)			

National Fire Protection Association (NFPA)



HEALTH = 2, Moderate FIRE = 3, HIGH REACTIVITY = 1, Slight (Normally Stable)

Section 16 - Other Information (continued)					
ABBREVL	ATIONS/ACRONYMS:				
ACGIH	American Conference of Governmental Industrial Hygienists	NIF	No Information Found		
BEIs	Biological Exposure Indices	NIOSH	National Institute for Occupational Safety and Health		
CAS	Chemical Abstracts Service	NTP	National Toxicology Program		
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	ORC	Organization Resources Counselors		
CFR	Code of Federal Regulations	OSHA	Occupational Safety and Health Administration		
CNS	Central Nervous System	PEL	Permissible Exposure Limit		
GI, GIT	Gastro-Intestinal, Gastro-Intestinal Tract	PNOR	Particulate Not Otherwise Regulated		
HMIS	Hazardous Materials Identification System	PNOC	Particulate Not Otherwise Classified		
IARC	International Agency for Research on Cancer	PPE	Personal Protective Equipment		
LC50	Median Lethal Concentration	ppm	parts per million		
LD50	Median Lethal Dose	RCRA	Resource Conservation and Recovery Act		
LD Lo	Lowest Dose to have killed animals or humans	RTECS	Registry of Toxic Effects of Chemical Substances		
LEL	Lower Explosive Limit	SARA	Superfund Amendment and Reauthorization Act		
μg/m <sup>3</sup>	microgram per cubic meter of air	SCBA	Self-contained Breathing Apparatus		
mg/m <sup>3</sup>	milligram per cubic meter of air	STEL	Short-term Exposure Limit		
mppcf	million particles per cubic foot	TLV	Threshold Limit Value		
SDS	Safety Data Sheet	TWA	Time-weighted Average		
MSHA	Mine Safety and Health Administration	UEL	Upper Explosive Limit		
MOL	Ontario Ministry of Labour	WHMIS	Workplace Hazardous Materials Information System		
NFPA	National Fire Protection Association		·		

**Disclaimer:** This information is taken from sources or based upon data believed to be reliable. However, Stelco Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

### Rev. 6/17



The Steel Company of Canada

Light Oil				
Signal Word: DANGER	Symbols:			
HAZARD ST	ATEMENTS:			
Highly flammable liquid and vapor. Toxic if inhaled. May be fatal if swallowed and enters airways. May cause genetic defects.				
May caus				
	v or the unborn child. tation drowsiness or dizziness and damage to lungs, liver and cells.			
Causes damage to blood and blood forming sy Causes damage to	olfactory system.			
Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.				
PRECAUTIONA	RY STATEMENTS			
non-spark Take precautionary measur Wash thoroughly after handling. Of Do not handle until all safety precau Do not eat, drink or smok Do not breathe gas/mist/vapor/spray. Wear protective g Use only outdoors or in well ventilated areas. Contaminate If on skin (or hair): Take off immediately all contaminated of water. If skin irritation or rash occ In case of fire: Use foam, carbon d If swallowed: Immediately call a poison c If exposed, concerned or feel unwell: Get medica Store in well-ventilar	tightly closed. ion-proof electrical/ventilating/lighting/equipment. Use only ting tools. res against static discharge. otain special instructions before use. tions have been read and understood. e when using this product. loves/protective clothing/eye protection/face protection. ed work clothing must not be allowed out of the workplace. lothing and wash it before reuse. Wash/shower with plenty of eurs: Get medical advice/attention. ioxide, dry chemical to extinguish. enter or doctor. Do NOT induce vomiting.			
Stelco Inc. 386 Wilcox Street Hamilton, ON L8L 8K5 Original Issue Date: 08/01/1985	Phone Number : (905) 528-2511 (8:00 am to 5:00 pm) Emergency Contact: 1-888-226-8832 (CANUTEC) Revised: 4/8/2021			