



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

**Product Name:** Transflo MV  
**Product Class:** Lubricant  
**WHMIS Classification:** Not Controlled.

**Supplier Name and Address:** COASTAL Blending & Packaging  
 P.O. Box 1169  
 Saint John, N.B.  
 E2L 4E6

**Phone:** 800-574-5823  
**Emergency:** (506) 648-3060

## SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIALS

<u>Hazardous Ingredients</u>	<u>CAS#</u>	<u>wt%</u>	<u>TLV-TWA (8 h)</u>	<u>STEL</u>	<u>LD<sub>50</sub></u>
None	Mixture	100	5 mg/m <sup>3</sup> (oil mist)	10 mg/m <sup>3</sup> (oil mist)	

## SECTION 3 - PHYSICAL DATA AND CHEMICAL PROPERTIES

<b>Physical State &amp; Appearance:</b>	Viscous liquid	<b>Viscosity:</b>	34.3 cSt @ 40°C (104°F), 7.8 cSt @ 100°C (212°F), VI=204
<b>Colour:</b>	Dark Red	<b>Pour Point:</b>	-45°C
<b>Odour:</b>	No odour or slight petroleum oil like.	<b>Vapour Pressure:</b>	Negligible at ambient temperature and pressure
<b>Odour Threshold:</b>	Not available	<b>Volatility:</b>	Non-volatile
<b>Density:</b>	0.8544 kg/L @ 15°C (59°F)		

## SECTION 4 - FIRE AND EXPLOSION HAZARD

**Flammability:**  Yes  No  
**Flash Point :** Closed Cup: 160°C (320°F) (Pensky-Martens)  
**Upper Flammable Limit:** Not established.  
**Auto Ignition Temperature:** Fire Point: 212°C (413.6°F)  
**Sensitivity to Impact:** None.

**Conditions:** Open flame above flash point.  
 Open Cup: 185°C (365°F) (Cleveland)

**Lower Flammable Limit:** Not established.  
**TDG Flammability Classification:** Not classified.  
**Sensitivity to Static Discharge:** None.

**Means of Extinction:** Dry chemicals, water spray, fog, foam or CO<sub>2</sub>.  
**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), smoke and irritating vapours as products of incomplete combustion.

**Special Procedures:** NAERG96, GUIDE 171, Substances (low to moderate hazard). If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.

**Fire Hazards in Presence of Various Substances:** Low fire hazard. This material must be heated before ignition will occur.

**Explosion Hazards in Presence of Various Substances:** Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.

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## SECTION 5 - REACTIVITY DATA

**Stability:** This product is stable under normal handling and storage conditions.  
**Hazardous Polymerisation:** Will not occur under normal working conditions.  
**Conditions to avoid/Incompatibility Substances:** Reactive with oxidizing agents and reducing agents.  
**Hazardous decomposition products:** May release COx, NOx, smoke and irritating vapours when heated to decomposition.

## SECTION 6 - TOXICOLOGICAL PROPERTIES

**Route of Entry:**  Eye  Skin Contact  Skin Absorption  Inhalation  Ingestion

**Effects of Acute Exposure:** Based on toxicity of components.  
Acute oral toxicity (LD50): >5000 mg/kg (rat).  
Acute dermal toxicity (LD50): >2000 mg/kg (rabbit).  
Acute inhalation toxicity (LC50): >2500 mg/m<sup>3</sup>/4h (rat).

**Effects of Chronic or Other Exposure:**  
**Dermal Route:** Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.  
**Inhalation Route:** Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.  
**Oral Route:** Low toxicity; has laxative effect.  
**Eye Irritation/Inflammation:** Repeated or prolonged contact may cause transient irritation, but no permanent damage.  
**Immunotoxicity:** Not available  
**Skin Sensitization:** this product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.  
**Respiratory Tract Sensitization:** This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.  
**Mutagenic:** Based on actual test results of base oils and results of similar products, severely hydrotreated base oils given negative results when tested for: (a) Salmonella Typhimurium TA98 using the Modified Ames Assay for Petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay; (c) Structural Chromosomal Aberrations in Chinese Hamster Ovary (CHO) cells.  
**Reproductive Toxicity:** This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.  
**Teratogenicity/Embryotoxicity:** This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.  
**Carcinogenicity (ACGIH):** This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.  
**Carcinogenicity (IARC):** This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.  
**Carcinogenicity (NTP):** This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.  
**Carcinogenicity (IRIS):** Not available.  
**Carcinogenicity (OSHA):** This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.

**Other Considerations:** No additional remark.

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## SECTION 7 - PREVENTATIVE AND CORRECTIVE MEASURES

**Personal Protective Equipment:** *The selection of personal protective equipment varies, depending upon conditions of use.*

- Hands:** Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.
- Eyes:** Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.
- Respiratory:** Where concentrations in air may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.
- Feet:** Wear appropriate footwear to prevent product from coming in contact with feet or skin.
- Body:** Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.

**Engineering Controls:** For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.

**Leak and Spill Procedure:** NAERG96, Guide 171, Substances (low to moderate hazard). ELIMINATE ALLIGNITION SOURCES. Avoid contact. Stop leak in without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place use absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREMS OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.

**Waste Disposal:** Spent/used/water oil may meet the requirements of a hazardous waste. Consult your local or regional authorities. Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations.

**Storage Requirements:** Store in tight closed containers in cool, dry isolated, well-ventilated area and away from incompatibles.  
**Handling Requirements:** Avoid inhalation and skin contact especially when handling used oil. Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.

**Special Shipping Information:** TDG Classification: Not controlled under TDG (Canada).  
Special Provisions for Transport: Not applicable

## SECTION 8 - FIRST AID MEASURES

- Inhalation:** Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well ventilated area. Seek medical attention.
- Ingestion:** DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.
- Eye:** IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
- Skin:** Remove contaminated clothing – launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.

## SECTION 9 - PREPARATION DATE OF MSDS

<b>MSDS Prepared by:</b>	COASTAL Blending & Packaging	<b>Phone:</b>	1.800.574.5823
<b>MSDS Date:</b> January 11, 2010		<b>Fax:</b>	506.632.7001

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