



# SDS (Safety Data Sheet)

## SECTION #1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TOTAL AW 22, 32, 46, 68 and 100  
OTHER MEANS OF IDENTIFICATION: MIXTURE  
RECOMMENDED USE: PREMIUM HYDRAULIC LUBRICANT  
MANUFACTURER/SUPPLIER'S NAME: TOTAL CANADA INC.  
220, LAFLEUR  
LASALLE, QUEBEC  
H8R 4C9  
Tel.: (514) 595-7579 or 1-800-463-3955

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

## SECTION #2 HAZARDS IDENTIFICATION

### WHMIS CLASS AND DESCRIPTION -



These products are not regulated by the WHMIS.

**EMERGENCY OVERVIEW:** Repeated exposure may cause skin dryness and cracking

**ROUTES OF ENTRY:** Dermal contacts, Eye contact, Inhalation and Ingestion

### POTENTIAL ACUTE HEALTH EFFECTS:

**INHALATION:** This product should not be harmful through inhalation. Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea. Short-term overexposure can cause an irritation to the respiratory passages.

**CONTACT WITH EYES:** This product should not cause eye irritation. Repeated and prolonged contact may cause eye irritation.

**SKIN CONTACT:** This product should not cause skin irritation. Prolonged and repeated contact with this product can cause skin drying, which may result in skin irritation and dermatitis.

**INGESTION:** This product is not considered toxic by ingestion. In large amount it can cause digestive distress and diarrhea.

**OTHER EFFECTS:** None expected to cause any significant health effect under normal conditions of use. Not MUTAGENIC, GENOTOXIC or SENSITIZING for animals and humans.

### **MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

Pre-existing disorders involving any target organs mentioned in MSDS as being at risk may be aggravated by the over-exposure to this product.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

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

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NAME	%	No CAS
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- No hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.
- Canadian DSL and NDSL status: All ingredients are listed.
- No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

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**SECTION #4 FIRST AID**

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**GENERAL ADVICE:** IN CASE OF SERIOUS OR ANY PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY CARE. Show this material safety data sheet to the medical personnel in attendance.

**INHALATION:** Remove person to fresh air. See a physician if irritation persists.

**CONTACT WITH EYES:** Flush immediately with water for at least 15 minutes.

**CONTACT WITH SKIN:** Wash contaminated skin with mild soap and water. See a physician if irritation persists.

**INGESTION:** This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an Anti-Poison Center (1-800-463-5060).

**PROTECTION OF FIRST-AIDERS:** Do not use mouth to mouth if the victim has ingested or inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical advice. Use personal protective equipment.

**NOTE TO PHYSICIAN:** Treat symptomatically.

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

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**SECTION #5 FIRE FIGHTING MEASURES**

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**MINIMUM FLASH POINT (ASTM D92):** AW 22: 208°C  
AW 32: 220°C  
AW 46: 230°C  
AW 68: 234°C  
AW 100: 240°C

**AUTOIGNITION TEMPERATURE (°C):** Not available

<b>SUITABLE EXTINGUISHING MEDIA:</b>	Foam, Dry chemical CO <sub>2</sub> and water spray.
<b>UNSUITABLE EXTINGUISHING MEDIA:</b>	<b>DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD THE FIRE.</b>
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Normal combustion products, CO and CO <sub>2</sub> .
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.

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## **SECTION #6 ACCIDENTAL RELEASE MEASURES**

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### **SPILL AND LEAK PROCEDURES:**

Except in case of small spillages. The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

If required, notify relevant authorities according to all applicable regulations.

Evacuate non-essential personnel. For personal protection see section 8.

Stop or contain leak at the source, if safe to do so.

In case of large spillages, alert occupants in downwind areas.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

### **ADVICE FOR NON-EMERGENCY PERSONNEL:**

Do not touch or walk through spilled material.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

### **ADVICE FOR EMERGENCY PERSONNEL:**

Take all appropriate steps to avoid fire, explosion and inhalation hazards to the rescuers including the use of breathing apparatus.

In case of small spillages: normal working clothes are usually adequate.

Large spillages: Chemical resistant clothing, apron. Work gloves (preferably gauntlets) providing adequate chemical resistance. Remarks: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Work helmet, safety shoes or boots. Goggles and/or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection not normally required in normal conditions. A half or full-face respirator with filter(s) for organic vapors (and when applicable: for H<sub>2</sub>S would be recommended otherwise. A Self-Contained Breathing Apparatus (SCBA) can be used according to the extent oxygen deficiency is possible

### **ENVIRONMENTAL PRECAUTIONS:**

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. The product should not be allowed to enter drains, water courses or the soil.

### **METHODS AND MATERIALS FOR CONTAINEMENT AND CLEANING UP:**

Dam up. Ground and bond containers when transferring material. Keep in suitable, closed containers for disposal.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Use clean non-sparking tools to collect absorbed material.

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## **SECTION #7 HANDLING AND STORAGE**

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<b>STORAGE AND HANDLING:</b>	Use appropriate equipment (refer to section 8) whenever manipulating this product. Keep container in a cool and well-ventilated area. Do not enter storage areas and confined spaces unless adequately ventilated. Keep container tightly closed and sealed until ready for use.
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Store and use away from heat, sparks, open flame or any other ignition source

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## SECTION #8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMITS:

*Mineral oil mist:*

OSHA (PEL) TWA 5 mg/m<sup>3</sup>,  
NIOSH (REL) TWA 5 mg/m<sup>3</sup>,  
STEL 10 mg/m<sup>3</sup>

### VENTILATION:

Mechanical ventilation is recommended.

### RESPIRATORY PROTECTION:

If mist present, chemical cartridge respirator is recommended.

### GLOVES:

Resistant gloves (Viton, Nitrile, Neoprene) are recommended when handling this material.

### EYE PROTECTION:

Chemical safety goggles are recommended.

### BODY:

Flame retardant clothing is required.

### OTHER PROTECTION:

In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn. Security boots.

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## SECTION #9 PHYSICAL DATA

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### PHYSICAL STATE AT 25°C:

Liquid

### APPARENCE AND ODOR:

Clear yellow with characteristic odor

### pH:

Not applicable

### BOILING POINT:

> 250°C

### EVAPORATION RATE:

Negligible

### LOWER FLAMMABILITY LIMITS:

N/A

### UPPER FLAMMABILITY LIMITS:

N/A

### POUR POINT (ASTM D97):

AW 22: <-30°C

AW 32: <-27°C

AW 46: <-27°C

AW 68: <-21°C

AW 100: <-18°C

### DENSITY (g/cm<sup>3</sup> at 15°C):

0.87 - 0.89

### VAPOR DENSITY (air=1) (mg/m<sup>3</sup>):

Negligible

### VAPOR PRESSURE (mm Hg):

Negligible

### VISCOSITY at 40°C (cSt):

AW 22: 21

AW 32: 32

AW 46: 46

AW 68: 68

AW 100: 102

**VISCOSITY at 100°C (cSt):**  
AW 22: 4.2  
AW 32: 5.4  
AW 46: 6.9  
AW 68: 8.7  
AW 100: 11.6

**SOLUBILITY IN WATER:** Negligible

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## SECTION #10 STABILITY AND REACTIVITY

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**STABILITY:** Stable under normal conditions of use.  
**CONDITIONS TO AVOID:** Avoid excessive heat, open flames and formation of oil mist.  
**PRODUCTS TO AVOID:** Oxidizing agents, strong acids and bases.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A  
**POLYMERIZATION:** Will not occur

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## SECTION #11 TOXICOLOGICAL INFORMATION

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SPECIES	LD <sub>50</sub> ORAL	LD <sub>50</sub> DERMAL	LC <sub>50</sub> INHALATION	HRS
Rat	> 5000 mg/Kg	> 2000 mg/Kg	N/A	---

### **CHRONIC EFFECTS ON HUMANS:**

This product is not considered toxic. Negligible hazard at ambient/normal temperature. This product should not be harmful through inhalation. Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea and in the case of hot mist, it can cause an irritation to the respiratory passages

### **CARCINOGENIC EFFECTS:**

Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP).

### **TERATOGENICITY/MUTAGENICITY:**

This product has no teratogenic or mutagenic effects known.

### **OTHER TOXIC EFFECTS ON HUMANS:**

Repeated exposure may cause skin dryness and cracking.

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## SECTION #12 ECOLOGICAL INFORMATION

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### **ENVIRONMENTAL EFFECTS:**

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

### **BIOTOXICITY:**

This product is not considered harmful to land-based organisms but can be slightly toxic to aquatic life.

### **BIODEGRADABILITY:**

**THE MINERAL OIL BASE OF THIS PRODUCT IS CONSIDERED INHERENTLY BIODEGRADABLE. HOWEVER SOME COMPONENTS PRESENT IN THIS PRODUCT MAY NOT READILY BIODEGRADABLE.**

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## SECTION #13 DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHODS:** Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.

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## SECTION #14 TRANSPORTATION INFORMATION

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TRANSPORTATION in CANADA (TDG)



not regulated

SHIPPING NAME: None  
UN NUMBER: None  
CLASS DESCRIPTION: None

Other agencies:

USDOT: Not regulated by that agency as a hazardous material.  
IMO/IMDG (SEA): Not regulated as a hazardous material for maritime transport.  
IATA (AIR): Not regulated as a hazardous material for air transport.  
ADNR (INLAND WATERWAY TRANSPORT): Not regulated by that agency as a hazardous material.  
ADR/RID: Not regulated as a hazardous material for land transport.

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## SECTION #15 REGULATORY INFORMATION

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This product has been classified in accordance with the hazard criteria of the Controlled Products. Regulations (CPR) and the MSDS contains all the information required by the CPR. THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

DSL/NDSL Status: This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S. EPA TSCA Inventory.

### **INTERNATIONAL REGULATIONS:**

#### **U.S. Federal Regulations:**

TSCA 8(b) inventory: All components are listed.

#### **SARA 302/304/311/312 extremely hazardous substances:**

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

#### **SARA 302/304 emergency planning and notification:**

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

#### **SARA 302/304/311/312 hazardous chemicals:**

Distillates (petroleum), hydrotreated light

#### **SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Distillates (petroleum), hydrotreated light: Delayed (chronic) health hazard

### SARA 313

This product contains no chemicals in excess of the applicable minimum concentration that are 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 (Table 372.65).

Clean Water Act (CWA) 307: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Water Act (CWA) 311: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 accidental release prevention: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 regulated flammable substances: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

Clean Air Act (CAA) 112 regulated toxic substances: To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

### STATES REGULATIONS:

To the best of our knowledge, there are no substances that would be at reportable levels for this regulation in this product.

California Proposition 65: To the best of our knowledge, there are no Proposition 65 chemicals present in this product at levels that would require warning under the California Safe Drinking Water and Toxic Enforcement Act.

### OTHER INTERNATIONAL LISTS:

**Australia inventory (AICS):** This material is listed or exempted.

**China inventory (IECSC):** This material is listed or exempted.

**EUROPE (EINECS/ELINCS/NLP):** This material is listed or exempted.

**Japan inventory:** Not determined.

**Korea inventory (KECL):** This material is listed or exempted.

**New Zealand Inventory of Chemicals (NZIoC):** This material is listed or exempted.

**Philippines inventory (PICCS):** This material is listed or exempted.

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## SECTION #16 OTHER INFORMATION

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**Label requirements:** None (based on WHMIS)

Other Hazardous System Classification: According to the **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) and Hazardous Materials Identification System (HMIS, USA):**

NFPA		HMIS	
0	HEALTH	0	NO SIGNIFICANT RISK
1	FLAMMABILITY	1	PRESENT A WEAK RISK
0	RÉACTIVITY	0	NO SIGNIFICANT RISK
	INDIVIDUAL PROTECTION	B	Eye protection and gloves are recommended

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