



## SAFETY DATA SHEET

According to Canadian Hazardous Products Regulations (HPR) (SOR/2015/17)

SDS # : 089064

### MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

#### 1. IDENTIFICATION

##### Product identifier

Product name MULTIS COMPLEX RT 2

##### Other means of identification

Product Code(s) 089064

Number AH9  
Substance/mixture Mixture

##### Recommended use of the chemical and restrictions on use

Identified uses Lubricating grease

Uses advised against Do not use for any purpose other than the one for which it is intended.

##### Details of the supplier of the safety data sheet

Supplier TOTAL CANADA INC.  
220, LAFLEUR  
LASALLE, QUEBEC  
H8R 4C9  
Tel: (514) 595-7579  
Fax: (514) 595-5950

Contact Point service HSE

E-mail Address ProductSafety@total.com

##### Emergency telephone number

Emergency telephone 1-800-463-3955  
Company Phone Number +1 866 928 0789 (24h/24, 7d/7)  
+1 215 207 0061 (24h/24, 7d/7)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Serious eye damage/eye irritation - Category 2A

##### Label elements

Version HGHS



SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1



### WARNING

Causes serious eye irritation

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

##### Eyes

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

#### Other information

##### Other hazards

Causes mild skin irritation

##### Environmental properties

Should not be released into the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

##### Chemical nature

Mineral oil of petroleum origin.

Chemical Name	EC-No	CAS-No	Weight %
Distillates (petroleum), hydrotreated heavy naphthenic	265-155-0	64742-52-5	30-<60
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	272-028-3	68649-42-3	1-<5

##### Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

##### General advice

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

Version HGHS



SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

### EMERGENCY MEDICAL CARE.

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
<b>Inhalation</b>	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim 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 device.

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

<b>Skin contact</b>	Not classified based on available data. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Eye contact</b>	Causes serious eye irritation. May cause redness, itching, and pain.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	Treat symptomatically.
---------------------------	------------------------

## 5. FIRE-FIGHTING MEASURES

<b><u>Suitable Extinguishing Media</u></b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion

Version HGHS

SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

products include sulphur oxides ( SO<sub>2</sub> and SO<sub>3</sub> ) and Hydrogen sulphide H<sub>2</sub>S, Mercaptans, Phosphorous oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen fluoride, Hydrogen chloride, Sodium oxides, Silicon dioxide, Zinc oxides.

### Explosion Data

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**Other information** See Section 12 for additional information.

### Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Try to prevent the material from entering drains or water courses.

### Methods and material for containment and cleaning up

**Methods for containment** If necessary dike the product with dry earth, sand or similar non-combustible materials.

**Methods for cleaning up** Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.  
 Small spillage: Avoid dust formation. Do not sweep dry dust. Wet dust with water before sweeping or use a vacuum to collect dust. Pick up and transfer to properly labeled containers.  
 Large spillage: Prevent product and washings from entering drains, sewers or surface water due to high toxicity to aquatic organisms. Clean up promptly by sweeping or vacuum.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** For personal protection see section 8. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion** Take precautionary measures against static discharges.

Version HGHS



SDS # : 089064

**MULTIS COMPLEX RT 2**

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture.

**Materials to Avoid**

Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure limits**

Mineral oil mist:  
USA: 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>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).

**Legend**

See section 16

**Exposure controls****Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Individual protection measures, such as personal protective equipment****General Information**

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied.

**Eye/face protection**

If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots.

Version HGHS



SDS # : 089064

**MULTIS COMPLEX RT 2**

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

**Hand Protection**

Hydrocarbon-proof gloves: Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**Respiratory protection**

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapor/particulate. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and chemical properties**

Appearance		smooth	
Color		red	
Physical State @20°C		solid	
Odor		Petroleum distillates	
Odor Threshold		No information available	
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>	<b><u>Method</u></b>
pH		No information available	
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	> 150 °C > 302 °F		Open cup Open cup.
Evaporation rate	< 1	nBuAc=1	
Flammability Limits in Air			
Vapor Pressure	< 0.0013 kPa		
Vapor density	> 10	(Air = 1)	
Relative density	0.93		
Density	0.962 g/cm3		
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic		No information available	
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	None under normal processing		

Version HGHS



SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

### Other information

Freezing Point

No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** None under normal processing.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** Heat, flames and sparks. Take precautionary measures against static discharges.

**Incompatible materials** Strong oxidizing agents.

**Hazardous Decomposition Products** None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Skin contact** Not classified based on available data. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Eye contact** Causes serious eye irritation. May cause redness, itching, and pain.

**Inhalation** Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion** Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Acute toxicity - Product Information

**Oral** Not classified based on available data

**Dermal** Not classified based on available data

**Inhalation** Not classified based on available data

Version HGHS

SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	LC50 (4h) 5.53 mg/l (Rat - Aerosol - OECD 403)

**Skin corrosion/irritation** Not classified based on available data.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** Not classified based on available data.

**Germ cell mutagenicity** Not classified based on available data.

**Carcinogenicity** Not classified based on available data.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	-	-		-

**Reproductive toxicity** Not classified based on available data.

**Target Organ Effects (STOT)** None known.

**STOT - single exposure** Not classified based on available data.

**STOT - repeated exposure** Not classified based on available data.

**Aspiration hazard** Not classified based on available data.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Acute aquatic toxicity - Product Information

No information available

#### Acute aquatic toxicity - Component Information

Does not contain hazardous substances above regulatory disclosure thresholds

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5		LC50 (96h) > 100 mg/l (Pimephales promelas - static - OECD 203)	EL50 (48h) > 10000 mg/l (Daphnia magna - static - OECD 202)	

#### Chronic aquatic toxicity - Product Information

No information available

Version HGHS





SDS # : 089064

**MULTIS COMPLEX RT 2**

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

**Chronic aquatic toxicity - Component Information**

Does not contain hazardous substances above regulatory disclosure thresholds

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5		NOEL (21d) 10 mg/l (Daphnia magna - semi static - OECD 211)		

**Effects on terrestrial organisms** No information available.**Persistence and degradability**

No information available

**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information** No information available.**Mobility**

**Soil** Given its physical and chemical characteristics, the product has no soil mobility.  
**Air** Loss by evaporation is limited  
**Water** The product is insoluble and floats on water The product is insoluble and sinks in water

**Other adverse effects****General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment**

**Waste from residues/unused products** Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration. 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.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or

Version HGHS



SDS # : 089064

**MULTIS COMPLEX RT 2**

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

disposal.

**14. TRANSPORT INFORMATION**

<u>TDG</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ADR/RID</u>	Not regulated

**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR

<b>International Inventories</b>	All the substances contained in this product are listed or exempted from listing in the following inventories: Canada (DSL/NDSL) U.S.A. (TSCA)
----------------------------------	--

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	<b>Health Hazard</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special hazards -</b>
<u>HMIS</u>	<b>Health Hazard</b> 1	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal protection</b> X

<b>Revision Date:</b>	2018-12-10
<b>Revision Note</b>	Initial Release

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

Version HGHS



SDS # : 089064

## MULTIS COMPLEX RT 2

Date of the previous version: not applicable

Revision Date: 2018-12-10

Version 1

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

NTP = National Toxicology Program

### Section 8

TWA - Time Weight Average

STEL - Short Term Exposure Limits

+	Sensitizer	*	Skin designation
C:	Carcinogen	R:	Toxic to reproduction
Ceiling:	Ceiling Limit Value		

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet