#### **SECTION 1 – GENERAL INFORMATION**

#### MANUFACTURER'S NAME: TORCO INTERNATIONAL CORP. TRADE NAME & SYNONYMS: ENGINE ASSEMBLY LUBE SHELF LIFE: 2 YEARS

#### **SECTION 2 – HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture Not Classified

#### 2.2. Label elements

Using the Toxicity Date listed in section 11 & 12 the product is labeled as follows:

P273 Avoid release to the environment.

P501 Dispose of contents / container in accordance with local / national regulations.

HMIS	Health:	0	NFPA	Health:	0
	Fire:	1		Fire:	1
	Physical Hazards:	0		Reactivity:	0
	PPE:	С		Special Hazards:	

### 2.3 Other hazards

This product contains no PBT/vPvB chemicals.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient/Chemical Designations	CAS Number	Weight %	EC No. 1272/2008 / GHS Classification
Residual oil (petroleum), solvent refined	0064742-01-4	<60	Not Classified
Polybutene	0009003-29-6	<10	Not Classified
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0068649-42-3	<3	Not Classified
Petroleum distillates, hydrotreated light naphthenic	0064742-53-6	<1	Not Classified
Distillate (petroleum) hydrotreated heavy naphthenic	0064742-52-5	<1	Not Classified
Petroleum distillates, hydrotreated heavy paraffin	0064742-54-7	<1	Not Classified
	1		

The full texts of the phrases are shown in Section XVI

#### **SECTION 4 – FIRST AID MEASURES**

#### 4.1. Description of first aid measures

### General

In all cases of doubt, or when systems persist, seek medical attention.

Never give anything by mouth to an unconscious person.

### Inhalation

If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

#### Skin

In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

## SECTION 4 – FIRST AID MEASURES (CONT)

#### Eye

In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.

#### Ingestion

Do not induce vomiting. Call a physician or emergency medical facility immediately.

**4.2. Most important symptoms and effects, both acute and delayed** No data available

**4.3. Indication of any immediate medical attention and special treatment needed** No data available

### **SECTION 5– FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

Use Carbon dioxide (CO2), dry chemical, or foam to extinguish flames.

## **5.2.** Special hazards arising from the substance or mixture Hazardous Decomposition Products: May form CO and CO2.

#### 5.3. Advice for fire fighters

Self-contained full face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from fire fighting to enter drains or water courses.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

#### 6.2. Environmental precautions

Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.

#### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13)

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes, the Environmental Protection Agency should also be informed.

Dispose of in accordance with all federal, state and local environmental regulations.

## SECTION 7 - HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Handling Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

#### In Storage

Store in a dry location at room temperature.

Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep away from strong oxidizing and reducing agents.

CAUTION!!! Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

## 7.3. Specific end use(s)

There are no exposure scenarios, see details in section 1.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

#### The following occupational exposure limits have been established.

CAS Number	Ingredient	Source	Value
0009003-29-6	Polybutene	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0064742-01-4	Residual oil	OSHA	No Established Limit
	(petroleum), solvent refined	ACGIH	No Established Limit
	renneu	NIOSH	No Established Limit
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0064742-53-6	Petroleum distillates, hydrotreated light naphthenic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
	Petroleum distillates, hydrotreated heavy paraffin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0068649-42-3	Phosphorodithioic acid, O,O-di-C1-14- alkyl esters, zinc salts	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m3 OSHA PEL and 10 mg/m3 ACGIH.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

Carcinogen Data				
CAS Number	Ingredient	Source	Value	
0009003-29-6	Polybutene	OSHA	Select Carcinogen: No	
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	
0064742-01-4	Residual oil	OSHA	Select Carcinogen: No	
	(petroleum), solvent refined	IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	
0064742-52-5	Distillate (petroleum) hydrotreated heavy naphthenic	OSHA	Select Carcinogen: No	
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	
0064742-53-6 Petroleum distillates, hydrotreated light naphthenic		OSHA	Select Carcinogen: No	
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	
0064742-54-7 Petroleum distillates, hydrotreated heavy paraffin		OSHA	Select Carcinogen: No	
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	
0068649-42-3 Phosphorodithioic acid, O,O-di-C1-14- alkyl esters, zinc salts		OSHA	Select Carcinogen: No	
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No	

## DNEL/PNEC values

No Data Available

#### 8.2. Exposure controls

No special requirements under ordinary conditions of use and with adequate ventilation.

#### Eye/face protection

Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

#### Skin protection

Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

#### Other

Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

## **Respiratory protection**

Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

## Thermal hazards

No Data Available

## **SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES**

Appearance	RED OILY LIQUID
Odor	Petroleum Odor
Odor threshold	Not determined
рН	Not measured
Melting point/freezing point (°C)	Not determined
Initial boiling point and boiling range (°C)	Not measured
Flash Point (°C)	>200
Evaporation rate (H20 = 1)	Not determined

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES (CONT)

Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Lower Explosive Limit:	Not determined
Upper Explosive Limit:	Not determined
Vapor pressure (Pa)	Not determined
Vapor density	Heavier than air
Relative density	0.8875
Solubility(ies)	negligible
Partition coefficient n-octanol/water (Log Kow)	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature	Not determined
Viscosity (cSt)	
@ 100°C	Not measured
@ 40°C	Not measured
Pour point temperature (°C)	Not determined
Volatile Organic Compounds	Nil
SADT	Not determined

The data listed above are typical physical and chemical properties that do not constitute product specification.

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9.2. Other information DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

## SECTION 10 – STABILITY AND REACTIVITY

## 10.1. Reactivity

No data available

#### 10.2. Chemical stability

Material is normally stable at ambient temperature and pressure.

#### 10.3. Possibility of hazardous reactions

May react with: oxidizing agents.

## 10.4. Conditions to avoid

High temperature, sparks, and open flames.

### 10.5. Incompatible materials

Keep away from strong oxidizing and reducing agents.

#### 10.6. Hazardous decomposition products

Hazardous Decomposition Products: May form CO and CO2.

## SECTION 11 – TOXICOLOGICAL INFORMATION

## Acute toxicity

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	CAS Number	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
Distillate (petroleum) hydrotreated heavy naphthenic	0064742-52-5	>5,000, Rat	5,000.00, Rabbit	Not Available
	-			
Petroleum distillates, hydrotreated heavy paraffin	0064742-54-7	>5,000, Rat	>5,000, Rabbit	Not Available
Petroleum distillates, hydrotreated light naphthenic	0064742-53-6	>5,000, Rat	Not Available	Not Available
Phosphorodithioic acid, O,O-di- C1-14-alkyl esters, zinc salts	0068649-42-3	>2,000, Rat	>2,000, Rabbit	5.00, Rat
Polybutene	0009003-29-6	34,600, Rat	10,250, Rabbit	Not Available
Residual oil (petroleum), solvent refined	0064742-01-4	Not Available	Not Available	Not Available
Classification	Category	Hazar	Hazard Description	
Acute Toxicity (oral)	Not classified	Not applicable		
Acute Toxicity (dermal)	Not classified	Not applicable		
Acute Toxicity (inhalation)	Not classified	Not applicable		
Skin corrosion/irritation	Not classified	Not ap	Not applicable	
Serious eye damage/irritation	Not classified	Not ap	Not applicable	
Respiratory sensitization	Not classified	Not ap	Not applicable	
Skin sensitization	Not classified		Not applicable	
Germ cell mutagenicity	Not classified		Not applicable	
Carcinogenicity	Not classified			
Reproductive toxicity	Not classified	Not applicable		
STOT - single exposure	Not classified		Not applicable	
STOT - repeated exposure	Not classified	Not applicable		
Aspiration hazard	Not classified	Not ap	plicable	

**SECTION 12 – ECOLOGICAL INFORMATION** 

12.1 Toxicity

The preparation has been assessed following the conventional method of Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

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## SECTION 12 - ECOLOGICAL INFORMATION (CONT)

#### Aquatic Ecotoxicity

Ingredient	CAS Number	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErF50 algae, mg/l	
Residual oil (petroleum), solvent refined	0064742-01-4	Not Available	Not Available	Not Available	
Polybutene	0009003-29-6	Not Available	Not Available	Not Available	
Phosphorodithioic acid, O,O-di- C1-14-alkyl esters, zinc salts	0068649-42-3	Not Available	Not Available	Not Available	
Petroleum distillates, hydrotreated light naphthenic	0064742-53-6	Not Available	Not Available	Not Available	
Distillate (petroleum) hydrotreated heavy naphthenic	0064742-52-5	5,000.00, Oncorhynchus mykiss	1,000.00, Daphnia magna	1,000.00 (96 hr), Scenedesmus subspicatus	
Petroleum distillates, hydrotreated heavy paraffin	0064742-54-7	Not Available	Not Available	Not Available	

## 12.2. Persistence and degradability

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential** Not measured

12.4. Mobility in soil No data available

12.5. Result of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## 12.6. Other adverse effects

No data available

## **SECTION 13 - DISPOSAL**

### 13.1 Waste treatment methods

Consult federal, state, and local regulations regarding disposal methods. Recycle used oil. Do not contaminate used oil with solvents or other chemicals.

## **SECTION 14 - TRANSPORTATION**

Not applicable
Not regulated
Not regulated

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## **SECTION 14 – TRANSPORTATION (CONT)**

ADR/RID	Not regulated
IMDG	Not regulated
Sub Class	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	
ADR/RID	Environmentally Hazardous: No Not regulated
IMDG	Marine Pollutant: No – Not regulated
14.6. Special precautions for user No further information	

## **SECTION 15 – REGULATORY INFORMATION**

#### **National Legislation**

United States:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

SARA 311/312 (>0.1%):	Not applicable
SARA 313 (>0.1%):	
Phosphorodithioic acid, O,O-di-	C1-14-alkyl esters, zinc salts
CERCLA (>0.1%):	Not applicable
Inventory - Canada - Non-Domestic Substances List (NDSL):	Not applicable
Phosphonic acid, diisooctyl este	r
California Proposition 65 Cancer:	Not applicable
California Proposition 65 Developmental:	Not applicable
California Proposition 65 Female Reproductive:	Not applicable
California Proposition 65 Male Reproductive:	Not applicable
Inventory - Australia - Inventory of Chemical Substances (AICS):	

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### SECTION 15 - REGULATORY INFORMATION (CONT)

Amines, N-tallow alkyltrimethylenedi-Di(2-ethylhexyl) phosphate Calcium Sulfonate Distillate (petroleum) hydrotreated heavy naphthenic Petroleum distillates, hydrotreated heavy paraffin Petroleum distillates, hydrotreated light naphthenic Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Polybutene Residual oils (petroleum), solvent refined

# Inventory - Japan Existing and New Chemical Substances (ENCS):

Di(2-ethylhexyl) phosphate (2-1986)

Distillate (petroleum) hydrotreated heavy naphthenic ()

Petroleum distillates, hydrotreated heavy paraffin ()

Petroleum distillates, hydrotreated light naphthenic ()

Phosphonic acid, diisooctyl ester (2-2001)

Polybutene (6-774)

Residual oils (petroleum), solvent refined ()

## Korean Existing Chemicals

#### Inventory:

Di(2-ethylhexyl) phosphate

Distillate (petroleum) hydrotreated heavy naphthenic

Petroleum distillates, hydrotreated heavy paraffin

Petroleum distillates, hydrotreated light naphthenic

Phosphonic acid, diisooctyl ester

## Polybutene

Residual oils (petroleum), solvent refined

## Inventory of Existing Chemical

## Substances in China:

Calcium Sulfonate

Petroleum distillates, hydrotreated heavy paraffin

Petroleum distillates, hydrotreated light naphthenic

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Polybutene

Residual oils (petroleum), solvent refined

## **Philippines Inventory of Chemicals**

## and Chemical Substances (PICCS):

Amines, N-tallow alkyltrimethylenedi-

Di(2-ethylhexyl) phosphate

Calcium Sulfonate

Distillate (petroleum) hydrotreated heavy naphthenic

## SECTION 15 - REGULATORY INFORMATION (CONT)

Petroleum distillates, hydrotreated heavy paraffin Petroleum distillates, hydrotreated light naphthenic Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts Polybutene Residual oils (petroleum), solvent refined Taiwan List of Toxic Chemical Not applicable Substances regulated under Toxic **Chemical Substances Control Act :** EU REACH: Annex XVII, Dangerous Substances and Preparations: Distillate (petroleum) hydrotreated heavy naphthenic Petroleum distillates, hydrotreated heavy paraffin Petroleum distillates, hydrotreated light naphthenic Residual oils (petroleum), solvent refined Inventory - European Union -European Inventory of Existing **Commercial Chemical** Substances (EINECS): Amines, N-tallow alkyltrimethylenedi- (263-189-0) Di(2-ethylhexyl) phosphate (206-056-4) Calcium Sulfonate () Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0) Petroleum distillates, hydrotreated heavy paraffin (265-157-1) Petroleum distillates, hydrotreated light naphthenic (265-156-6) Phosphonic acid, diisooctyl ester (252-873-4) Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (272-028-3) Polybutene () Residual oils (petroleum), solvent refined (265-101-6) EU List of Notified Chemical Not applicable Substances (ELINCS): Substances (ELINCS):

#### Risk Phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **SECTION 16 – OTHER INFORMATION**

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE; OBTAINED FROM SOURCES BELIEVED BY VALCO CINCINNATI, INC. TO BE ACCURATE. SINCE THE CONDITIONS AND METHODS OF USE OF OUR PRODUCT ARE BEYOND OUR CONTROL, WE DISCLAIM ANY AND ALL LIABILITY ARISING OUT OF THE IMPROPER USE OF THIS PRODUCT OR THE INFORMATION PROVIDED HEREWITH.