

# **Ding Oil International Trading Company Ltd.**

## **MATERIAL SAFETY DATA SHEET**

### **#40 RADIATOR CLEANER**

#### **1. Product & Company Identification**

Product Name: RADIATOR CLEANER  
Product Use: RADIATOR CLEANER  
Supplier: Ding Oil International Trading Company Ltd.  
Address: No.100-61, Fengren Rd., Fengshan Dist.,  
Kaohsiung City 830, Taiwan  
Tel: +886 7 740 5126 Fax: +886 7 7405127  
Email: service.BOD@gmail.com  
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#### **2. Composition & Ingredients**

Chemical Properties: Hydrocarbons

Ingredients	Concentration (%)	CAS No.	Synonym
Deionized Water	40-80	7732-18-5	n/a
Citric Acid	0-40	<b>77-92-9</b>	n/a

#### **3. Hazards Identification**

POTENTIAL HEALTH EFFECTS

NON HAZARDOUS SUBSTANCE, NON DANGEROUS PRODUCTS.

Emergency : May cause minor irritation as contact with skin and eyes

Chronic : This product has not been tested as a whole for chronic health effects.

POTENTIAL ENVIRONMENTAL EFFECTS : None applicable

PHYSICAL & CHEMICAL HAZARDS : None applicable

SPECIAL HAZARDS : None applicable

MAJOR SYMPTOMS :

- EYES : Minor irritation
- SKIN CONTACT : No irritation
- SWALLOWING : May cause throat & respiration irritation.
- INHALATION : This good is not likely to cause an inhalation hazard at normal temperature, but when breathing the vapor or mist or heat may cause

respiration irritation (nose, throat and lung).

#### 4. First Aid Measures

- BREATHING : Move the person to fresh air, get medical attention and see a doctor if breathing difficulty occurs.
- SKIN : Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if skin irritation persists or pain develops.
- EYES : Wash eyes immediately with clean water for at least 15 minutes while holding the eyelid open. See a doctor if irritation persists.
- INGESTION : Do not make person vomit and see a doctor immediately.

**If vomiting occurs, avoids breathing the substance into respiration (lungs). Never give anything by mouth to an unconscious person.**

#### 5. Fire Fighting Measure

FIRE EXTINGUISHING AGENTS : **Foam, carbon dioxide, dry chemical powder**

- HAZARDOUS COMBUSTION PRODUCTS :

\*\*Burning at high heat may decompose and produce carbon dioxide, phosphorus oxides, and undefined organic compounds.

- FIRE FIGHTING INDICATIONS :

\*\*None.

- EXPLOSION HAZARDS :

\*\*Water may cause the hot oil splashing, and oil will float on the water. Gases or vapors can cause burning.

#### 6. Accidental Release Measures

- INDIVIDUAL NOTES :

\*\* Immediately stop the leak of the liquid, remove the leaked liquid as soon as possible.

- ENVIRONMENTAL NOTES :

\*\* Prevent pollution of water or soil.

- CLEAN PROCEDURES :

\*\* Clean up small spill requires appropriate methods, such as use absorbent material to absorb or use motor extract.

#### 7. Handling and Storage

- ◆ **Handling :**

A. Don't do the container welding, heating or drilling and the lid should be closed.

It's dangerous after the empty bucket sufficiently heated.

- B. When do the process of handling, keep the proper temperature and ventilation of the environment.
- C. Avoid with water, or cause the pollution of water.

◆ **Storage :**

- A. Store containers in a cool, dry, ventilated place, and keep them away from flame, sparks or other sources of ignition.
- B. The containers must be safely sealed clearly marked and avoid damage and collision.

## 8. Exposure Controls / Personal Protection

Engineering controls : There is no need ventilation, but use this item under a high pressure job in general; there is the special ventilation equipment.

Inhalation Protection : Wear respiratory masks.

Hands/Feet Protection: suitable and durable plastic or rubber gloves, wear securely footwear like rubber.

Eye Protection : Wear safely glasses with side shields, chemical goggles.

Skin & Body Protection : Any routine contact with used engine oil should require wearing protective clothing such as gloves, boots or apron made of neoprene, nitrile, etc. suitable for the application.

Hygiene :

- a. Keep good personal. Wash entirely with soap and water after handling product.
- b. Prohibit smoking and eating in working area.
- c. Clean affected clothing shoes, etc.
- d. Keep working areas clean.

## 9. Physical & Chemical Properties

Appearance & color :	liquid, clear, mild acidic
Boiling point (deg. C) :	212°F (100°C)
Vapor pr. (mmHg@ 25 deg. C) :	None
Density (kg/l at 15 deg. C) :	0.82-0.88 @15°C , g/cm <sup>3</sup>
Vapor density (air = 1) :	>1 (air=1)
pH :	None
Solubility (water) :	100%
Volatile Component (% vol.) :	None
Evaporation :	None
Flash point deg. C	not detected (Pensky Martens)

Viscosity(100°C) : >16.3 cSt  
Pour point : <-12°C

## 10. Stability & Reactivity

Chemical stability : The products are stable.  
Conditions to avoid : Sparks or flame.  
Materials to avoid : Acids, oxidizers, halogens and halogen compounds  
Hazardous decomposition products : None

## 11. Toxicological Information

Acute Effects : None  
Eyes & Skin : Extremely slight  
Skin : Not expected to have serious effects to skin if thoroughly removed by washing with soap and water.  
Swallow : May be harmful if swallowed.  
Toxicity : No specific data.

## 12. Ecological Information

Environmental effects :  
Chronic toxicity to fish, NOEC> 5000mg / L (seven) -IUCLID data  
Chronic toxicity to water invertebrates, NOEC> 552mg / L (seven) -IUCLID data  
Persistence and degradability : No specific data.  
Bio accumulative : No specific data.  
The mobility in soil : No specific data.  
Other adverse effects : No specific data.

## 13. Disposal Considerations

Disposals are different from countries, or territories.  
The user must operate according to the laws & rules in their country.

## 14. Transport Information

UN/ADR/RID/IMDG/IATA/ANDR/UK : Not regulated

## 15. Regulatory Information

\*Labor safety rules.

\*Road & traffic safety rules.

\*Taiwan industrial disposals treatment and storage operation regulations and facility standards.

## 16. Other information

Issuer name: Ding Oil International Trading Company Ltd.

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Tel: +886 7 7405126

Issued date: Dec. 14, 2016

Revision No. : 1

Label/other information: Not available.

### Remarks to reader:

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