

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/06/2022

#### **SECTION 1: Identification**

#### 1.1. Identification

: Universal Auto A/C ISO 46 PAG Refrigerant Compressor Oil With UV Dye Trade name

Product code : 9022B

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Polyalkylene Glycol based lubricant for use in automotive air conditioning systems. Contains

ultraviolet dye to help detect leaks.

#### 1.3. Supplier

Petra Automotive Products, Inc. 11085 Regency Green Drive Cypress, TX 77429 713-856-5700 www.petraautoproducts.com

#### 1.4. Emergency telephone number

**Emergency number** : CHEMTREC U.S. 800-424-9300 | INTERNATIONAL 703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 2 H315 Causes skin irritation

Skin sensitization, Category 1 H317 May cause an allergic skin reaction

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
[[(2-ethylhexyl)oxy]methyl]oxirane	CAS-No.: 2461-15-6	-	Skin Irrit. 2, H315 Skin Sens. 1A, H317

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

No additional information available

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#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapor.

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

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### Universal Auto A/C ISO 46 PAG Refrigerant Compressor Oil With UV Dye

No additional information available

#### [[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)

No additional information available

### 8.2. Appropriate engineering controls

No additional information available

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#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Suggested protective material: Nitrile, 4.5 mil thickness, tested at 3.5 ml and above with no breakthrough time after 240 minutes.

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type P2 - Medium efficiency particle filters may be used.

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Clear. Appearance Color : Yellow-green Odor : Characteristic Odor threshold : No data available : No data available рΗ : No data available Melting point No data available Freezing point

**Boiling point** > 200 °C (calculated value) Flash point 174 °C (Closed cup) Relative evaporation rate (butyl acetate=1) : No data available : Non flammable. Flammability (solid, gas) : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : No data available Unknown

Solubility

Partition coefficient n-octanol/water (Log Pow) : No data available No data available Auto-ignition temperature No data available Decomposition temperature

Viscosity, kinematic : 41.4 - 50.6 mm<sup>2</sup>/s @40°C

Viscosity, dynamic No data available **Explosion limits** No data available Explosive properties : No data available : No data available Oxidizing properties

#### 9.2. Other information

No additional information available

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# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

[[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)	
LD50 oral rat	> 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 25 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Viscosity, kinematic : 41.4 – 50.6 mm²/s @40°C

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - water : Toxic to aquatic life.

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[[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)	
LC50 - Fish [1]	> 5000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system,
	Fresh water, Read-across, Nominal concentration)

# 12.2. Persistence and degradability

Universal Auto A/C ISO 46 PAG Refrigerant Compressor Oil With UV Dye	
Persistence and degradability	Not established.
[[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)	
Persistence and degradability	Not readily biodegradable in water.

# 12.3. Bioaccumulative potential

Universal Auto A/C ISO 46 PAG Refrigerant Compressor Oil With UV Dye		
Bioaccumulative potential Not established.		
[[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)		
Partition coefficient n-octanol/water (Log Pow)  3.83 (Experimental value, EU Method A.8: Partition Coefficient)		
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).		

### 12.4. Mobility in soil

[[(2-ethylhexyl)oxy]methyl]oxirane (2461-15-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	> 5.63 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Read-across, GLP)
Ecology - soil	Adsorbs into the soil.

## 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

### **14.1. UN number**

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

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#### 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

**TDG** 

Transport hazard class(es) (TDG) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

### 14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

# 14.6. Special precautions for user

#### DOT

No data available

#### **TDG**

No data available

### IMDG

No data available

#### **IATA**

No data available

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
[[(2-ethylhexyl)oxy]methyl]oxirane	2461-15-6	Not present	-	

### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

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#### **National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

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Other information : None.

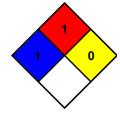
Full text of H- and EUH-statements: see section 16	
H315	Causes skin irritation
H317	May cause an allergic skin reaction

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur. NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire

conditions.



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