



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of:  
OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Product Name:** Nu-Calgon PVE FVC68D, 6 x 1 Quart Case  
**Product Code:** 4319-24

**Revision Date:** 09-Dec-2020  
**Revision Number:** 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product Name:** Nu-Calgon PVE FVC68D, 6 x 1 Quart Case

### Other means of identification

**Product Code:** 4319-24

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

**Recommended Use:** Refrigerant Oil

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

**Supplied by:** Nu-Calgon  
2611 Schuetz Road  
St. Louis, MO 63043  
(800) 554-5499 / (314) 469-7000

**Manufactured by:** IDEMITSU KOSAN CO., LTD  
3-1-1 MARUNOUCHI CHIYODA-KU  
TOKYO JAPAN  
PHONE: +81-3-3213-3143

**24 Hour Emergency Phone Number:** Chemtrec: (800) 424-9300

**2. HAZARDS IDENTIFICATION**

**2.1 Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin sensitization	Category 1
Reproductive toxicity	Category 2

**2.2 Label elements**



**Signal word**

**Warning**

**Hazard Statements**

H317 - May cause an allergic skin reaction  
H361 - Suspected of damaging fertility or the unborn child

**Precautionary Statements - Prevention**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P280 - Wear protective gloves/protective clothing and eye/face protection  
P261 - Avoid breathing dust, fume, gas, mist, vapors, or spray  
P272 - Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P362 + P364 - Take off all contaminated clothing and wash it before reuse

**Skin**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P363 - Wash contaminated clothing before reuse  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Storage**

P405 - Store locked up

**Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**2.3 Other information**

**Other hazards**

Toxic to aquatic life  
Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixture

##### Hazardous Components

Chemical name	CAS-No	weight-%	US GHS Classification	Notes
Tricresylphosphate	1330-78-5	1-5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Reproductive 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Oxirane, [[(2-ethylhexyl)oxy]methyl]-	2461-15-6	<1	Skin Sens. 1 (H317)	

### 4. FIRST AID MEASURES

#### 4.1 First Aid Measures

<b>General Advice</b>	If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. Call a physician immediately.
<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. If eye irritation persists: Get medical advice or attention. IF exposed or concerned: Get medical advice.
<b>Inhalation</b>	In case of inadequate ventilation wear respiratory protection. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If unconscious place in recovery position and seek medical advice. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with eyes, skin and clothing.

#### 4.2 Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	See Section 11 for additional Toxicological information.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**

NFPA: Class IIIB Combustible Liquid

**5.1 Suitable extinguishing media**

Use, Water spray, Alcohol resistant foam, Dry chemical, Carbon dioxide (CO2)

**Unsuitable Extinguishing Media:**

Do not use a solid water stream as it may scatter and spread fire.

**5.2 Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to:  
Carbon oxides  
Oxides of Phosphorus  
Sulphur oxides

**5.3 Protective Equipment and Precautions for Firefighters:**

Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation. Remove all sources of ignition.

**6.2. Environmental precautions**

**Environmental Precautions**

See section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow into any sewer, on the ground or into any body of water. Do not flush into surface water or sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and material for containment and cleaning up**

**Methods for Clean-up**

Contain and collect spillage 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).

**Spill Management**

**LARGE SPILLS**

Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities.

**WATER SPILLS**

Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not

breathe dusts or mists. Avoid contact with eyes, skin and clothing. Wear protective gloves, protective clothing, eye protection, and face protection. Use personal protection recommended in Section 8. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

**Safe Handling Advice**

Wear personal protective equipment. Do not breathe vapors, spray, or mist. Use product only in closed system.

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

**Storage**

Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

**Technical measures/Precautions**

Ensure adequate ventilation.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**8.2 Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal Protective Equipment**

**Eye/face protection**

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.

**Skin protection**

Wear protective gloves/clothing. Long sleeved clothing. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposed skin surfaces.  
**Glove Type:** Neoprene, Nitriles

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance**  
**Physical state**

Clear / Colorless  
Liquid

Odor	Characteristic
Odor Threshold	No information available
pH	Not applicable
Melting point / melting range	Not applicable
Boiling point / boiling range	No information available
Flash Point	> 180 °C / 356 °F COC ASTM D92
Evaporation Rate	No information available
Flammability Limit in Air	No information available
Explosion Limits	No information available
Vapor pressure @20 °C (kPa)	No information available
Vapor density	No information available
Density	0.94 g/cm <sup>3</sup> @15°C
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition Temperature	No information available
Decomposing Temperature	No information available
Kinematic viscosity	@ 40C = 66.57 cSt; @ 100C = 8.04 cSt

### 9.2. Other information

No additional information available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity** The product is chemically stable.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

**Conditions to Avoid** Heat, flames and sparks.

### 10.5. Incompatible materials

**Incompatible Materials** Strong acids, Strong bases

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.

**Ingestion** May be harmful if swallowed.

**11.2 Information on toxicological effects**

**Symptoms** No information available

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

**Skin corrosion/irritation** Not classified.

**Serious eye damage/eye irritation** Not classified.

**Sensitization** May cause an allergic skin reaction.

**Mutagenic effects** Not classified.

**Reproductive Toxicity** Suspected of damaging fertility or the unborn child

Developmental Effects Testes  
Exposure route Oral

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified

**Aspiration hazard** Not classified.

**11.4 Carcinogenicity**

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA or ACGIH.

**Legend:** *NTP (National Toxicology Program), IARC (International Agency for Research on Cancer), OSHA (Occupational Safety and Health Administration of the US Department of Labor), ACGIH (American Conference of Governmental Industrial Hygienists)*

**11.5 Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

**Product Information (Estimated):**

**ATEmix (oral)** > 2,000 mg/kg  
**ATEmix (dermal)** > 2,000 mg/kg mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tricresylphosphate 1330-78-5	> 20000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Oxirane, [[[2-ethylhexyl]oxy]methyl]- 2461-15-6	= 7800 mg/kg ( Rat )	2000 mg/kg	

**12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

**Ecotoxicity effects** Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

[12.2 Persistence and degradability](#) No information available.

[12.3. Bioaccumulative potential](#) No information available.

[12.4 Mobility in Environmental Media](#) No information available.

[12.5 Other adverse effects:](#) No information available.

[PBT and vPvB assessment](#) No information available

**13. DISPOSAL CONSIDERATIONS**

**Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.**

**Waste Disposal Method** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing
<b>DSL/NDL</b>	All ingredients are on the inventory or exempt from listing
<b>EINECS</b>	All ingredients are on the inventory or exempt from listing
<b>ENCS</b>	All ingredients are on the inventory or exempt from listing
<b>IECSC</b>	All ingredients are on the inventory or exempt from listing
<b>KECL</b>	All ingredients are on the inventory or exempt from listing
<b>AICS</b>	All ingredients are on the inventory or exempt from listing

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous Categorization**

<b>Acute health hazard</b>	Skin Sensitizer, Reproductive Toxicity
<b>Chronic Health Hazard</b>	Skin Sensitizer, Reproductive Toxicity
<b>Fire hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**State Regulations**

**California Proposition 65**

**Label:** This product does not contain any Proposition 65 chemicals

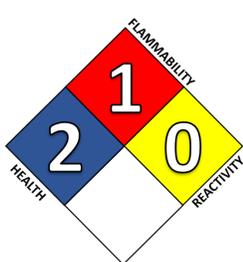
**State Right-to-Know**

Chemical name	CAS-No	weight-%	New Jersey
Tricresylphosphate	1330-78-5	1-5	X

**New Jersey Worker and Community Right-to-Know Act:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating Oil)

**16. OTHER INFORMATION**



**NFPA**

**Health hazards: 2**

**Flammability: 1**

**Instability: 0**

**Prepared By:** Aaron Keck

Revision Date: 09-Dec-2020

Revision Summary: Review  
Section 1: Identification of the hazardous chemical and of the supplier

**Disclaimer:**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**