



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 FV50S, 6 x 1 Quart Case
Product Code: 4319-20

Revision Date: 07-Dec-2022
Revision Number: 1

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

1.1 Product identifier

Product Name: Nu-Calgon PVE FV50S, 6 x 1 Quart Case

Other means of identification

Product Code: 4319-20

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant

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: Within USA and Canada: 1 800-424-9300
Outside USA and Canada: + 1 703-741-5970
(collect calls accepted)

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 Testes |

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 if swallowed

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

2.3 Other information

Hazards not otherwise classified (HNOC):

Not applicable

Other hazards

May be harmful if swallowed

May be harmful in contact with skin
 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 | 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

| | |
|-----------------------------------|--|
| General Advice | If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment. |
| Skin Contact | 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. |
| Eye Contact | 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. |
| Inhalation | 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. |
| Ingestion | 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. |
| Protection of First-aiders | Use personal protective equipment. Avoid contact with eyes, skin and clothing. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | See Section 11 for additional Toxicological information. |
|-----------------|--|

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties NFPA: Class IIIB Combustible Liquid

5.1 Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

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

5.3 Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

Safe Handling Advice

Handle in accordance with good industrial hygiene and safety practices. Take precautionary measures against static discharges.

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 | Colorless |
| Physical state | 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 | 206 °C / 403 °F Cleveland Open Cup |
| 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 | 0.93 g/cm ³ @15°C |
| Solubility(ies) | insoluble |
| Partition coefficient | No information available |
| Autoignition Temperature | No information available |
| Decomposing Temperature | No information available |
| Kinematic viscosity | @ 40C = 50.69 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 oxidizing agents

[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](#)

| | |
|--------------|---|
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | May cause slight irritation. |
| Skin Contact | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| 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. May cause sensitization of susceptible persons. |
| Mutagenic effects | Not classified. |
| Reproductive Toxicity | Suspected of damaging fertility or the unborn child |
| Developmental Effects Exposure route | Testes 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) >2000 mg/kg
ATEmix (dermal) >2000 mg/kg

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. 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 fish kill or create an anaerobic environment.

| Chemical name | 96h LC50 (fish - mg/L) (96HLCF) | 48h EC50 (daphnia - mg/L) (48HLCD) | 72h LC50 (algae - mg/L) (72HICA) |
|----------------------------|------------------------------------|---------------------------------------|-------------------------------------|
| Tricresylphosphate | 0.75 | 0.27 | 0.56 |
| 2,6-di-tert-butyl p-cresol | 5.01 | 0.48 | 0.42 |

12.2 Persistence and degradability

No information available.

12.3. Bioaccumulative potential

| Chemical name | Partition coefficient |
|---|-----------------------|
| Tricresylphosphate 1330-78-5 | 5.93 |
| Oxirane, [[2-ethylhexyl]oxy]methyl]- 2461-15-6 | 3.83 |

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

| | |
|-----------------|--|
| TSCA | All ingredients are on the inventory or exempt from listing |
| DSL/NDSL | All ingredients are on the inventory or exempt from listing |
| EINECS | All ingredients are on the inventory or exempt from listing |
| ENCS | All ingredients are on the inventory or exempt from listing |
| IECSC | All ingredients are on the inventory or exempt from listing |
| KECL | All ingredients are on the inventory or exempt from listing |
| PICCS | All ingredients are on the inventory or exempt from listing |
| AICS | All ingredients are on the inventory or exempt from listing |
| REACH | To obtain information on the REACH compliance status of this product, please e-mail ila.sds@idemitsu.com |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances
- NZLOC** - New Zealand Inventory of Chemicals
- REACH** - Registration, Evaluation, Authorisation, and Restriction of Chemicals

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 above threshold values of the reporting requirements of this Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous Categorization

| | |
|------------------------------|--|
| Acute health hazard | Skin Sensitizer, Reproductive Toxicity |
| Chronic Health Hazard | Skin Sensitizer, Reproductive Toxicity |
| Fire hazard | No |

Sudden Release of Pressure Hazard No
Reactive Hazard 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 > 0.1%.

State Regulations

California Proposition 65

Label: This product does not contain any Proposition 65 chemicals

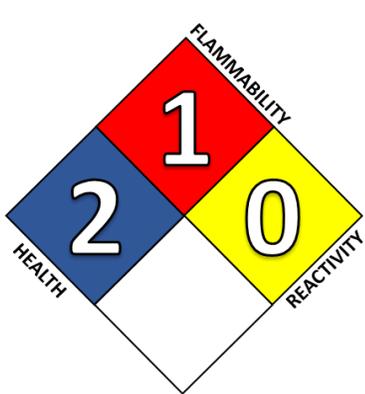
State Right-to-Know

This product does not contain any substances regulated by state right-to-know regulations

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: Latoya Walker

Revision Date: 07-Dec-2022

Revision Summary: New Item

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