

Vacuum pump oil (Asada Corporation SDS-047)

SAFETY DATA SHEET (SDS)

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Vacuum pump oil

Product code: VP005, VP006, VP083

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Oil for vacuum pumps

1.3 Details of the supplier of the safety data sheet

Company name: ASADA CORPORATION

Address: 3-60 Kamiida Nishi-machi, Kita-ku, Nagoya, Japan

Responsible Department: Marketing & Development Department

TEL: 052-911-7165

FAX: 052-914-2062

E mail: sales@asada.co.jp

1.4 Emergency telephone number

Emergency call: 052-911-7165

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under REGULATION (EC) No 1272/2008

Physic chemical hazards: No classification

Toxicological health effects: No classification

Toxicological environment effects: No classification

2.2 Label elements

No label element(s) required

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2.3 Other hazards

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

Section 3- Composition and ingredient information

Single substance or compound: A mixture of base oil and additives

A mixture of organic hydrocarbon compounds	CAS number
>90wt%	N/A

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Rinse carefully for several minutes with water. Rinse the eye after remove contact lenses if possible. Please consulting medical advice and treatment.

Inhalation: Move to a fresh air and take a position to breathe promptly.

Skin contact: Wash with plenty of soap and water and rinse thoroughly.

Ingestion: Rinse mouth immediately and call a medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: There may be irritation and redness. The eyes may water profusely.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Skin contact: There may be mild irritation at the site of contact.

Ingestion: There may be soreness and redness of the mouth and throat.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to doctor/physician: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media:

Do not use water in a jet.

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.

5.3 Advice for firefighters

Fire extinguisher: Powder, carbon dioxide, dry sand, etc.

Extinguishing media that must not be used: Rod-shaped water injection

Specific danger in case of fire: No data

Specific extinguishing measures:

Move containers from fire area if not dangerous.

For extinguishing metal fires, the closed method or suffocation method are desirable.

Protection of fire-fighters:

Wear appropriate protective equipment such as air respirators when extinguishing fires.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid contact with skin and eyes.

Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

6.2 Environmental precautions

Be careful not to be released to rivers and cause any adverse effects on the environment.

6.3 Methods and materials for containment and cleaning up

Absorb into dry earth or sand, and dispose by an appropriate method.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Static electricity test should be done on a regular basis to avoid the harm of static electricity.

Operation In a well-ventilated specific area and the minimum amount to be adopted.

Emergency response equipment should be ready for putting out the fire and leakage processing.

Remove all the sources of ignition, and avoid to produce oil mist when operating.

Using approval portable container in workplace.

Post Warning signs of “no smoking” in workplace.

Use non-sparking, grounded ventilation system and electrical equipment to prevent it from becoming a source of ignition.

A protective shoes should be worn when handling product in drums, and an appropriate tools should be used.

7.2. Conditions for safe storage, including any incompatibilities

Container should be tightly closed. Storage must be away from heat, fire, dust, rain and incompatible. Storage barrels should be grounded, transfer should be equipotential connection (grounding clip must touch the bare metal). Stored in a place which is cool, dry, well ventilated and sunlight unable to exposure directly. Stored in suitable containers which is labeled and avoid vessel damage. Containers and empty bucket should be sealed. Stored in a proper and qualified storage room, storage cabinets or storage buildings. Storage temperature and pressure: normal temperature and pressure.

7.3. Specific end use(s)

Not available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits

Maximum permissible concentration

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material	Stipulation	Contact/exposure duration	Contact/exposure limits	Unit	Note
Mineral oil mist	ACGIH	TWA	5	mg/m ³	
	ACGIH	STEL	10	mg/m ³	

8.2 Exposure controls

Engineering control:

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

Local exhaust must be used because of its effumability and inflammability.

Sparks is not produced when used alone.

This product are more likely to rally in the air after heating, spraying or fogging ; So enough ventilation to control gas concentration is a must.

Ensure enough fresh air to supply the air extraction by the exhaust system.

Individual protection measures, such as personal protective equipment:

General information: Use personal protective equipment as required;

Eye/face protection: If contact is likely, safety glasses with side shields are recommended;

Hand protection: Long-term exposure to Fluid may cause irritation to skin with redness and pain. Wear appropriate protective gloves. (Glove material is Chlorinated rubber, polyvinyl alcohol, elastomer, chloride, chlorinated polyethylene elastomer, neoprene, polyvinyl chloride (PVC), poly (amino ethyl for mate, etc.)

Respiratory Protection: In general, under normal circumstances, it is not need to wear respiratory protective equipment, Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

8.3 Environment monitoring:

The concentration of various substances in the workplace should be monitored. Reducing the emissions to the environment. Must ensure that in accordance with local environmental standards.

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8.4 Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

No smoking or eating in the workplace, the workplace should be kept clean.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : A liquid at room temperature

Odor : Mineral oil characteristics

Color : Colorless and transparent

Explosion limits : No data

Solubility : Water-insoluble

Pour point : -10°C

Flash point (open) : 232°C

Kinematic viscosity (40 °C) : 41.4~50.6mm²/s

Viscosity index : 112

Ultimate vacuum: 1.9×10⁻³ kPa

9.2. Other information

No additional information.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage.

10.2 Chemical stability

Stable, May play a harmful response under special conditions

10.3 Possibility of hazardous reactions

Reacts with strong oxidising agents.

10.4 Conditions to avoid

Damp, Heat, Flame source, Extreme temperatures, Sunlight.

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10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Carbon monoxide or carbon dioxide and water, It will not form hazardous decomposition under normal circumstances.

Section 11: TOXICOLOGICAL INFORMATION

Information provided on the basis of the component and toxicity data of similar products.

Acute toxicity : Acute peroral toxicity	Low toxicity expected : LD50 > 5000 mg/kg
Acute Dermal Toxicity	Low toxicity expected : LD50 > 5000 mg/kg
Acute Inhalation Toxicity	No data available

Skin irritation / corrosion : Expected to be slightly irritating. Long-term or continuous contact with the skin without proper cleaning maybe block the pores of the skin, and cause Fat sex acne/folliculitis disease, etc.

Eye irritation / corrosion: Expected to be slightly irritating.

Respiratory or skin sensitization: May cause irritation when Inhalation of vapors or mists.

Cell germ mutagenicity: Not considered a mutagenic danger.

Carcinogenicity: Not yet known.

Reproductive toxicity: The material should not be detrimental.

Inhalation Hazard: May cause irritation when Inhalation of vapors or mists .

Ingestion: Cause digestive discomfort.

Remark: The Used oil may contain harmful impurities which accumulated during use; Concentration of such harmful impurities will depend on use, May present risks to health and the environment on when disposal. All used oil should be handled carefully and avoid contact with the skin as much as possible.

Section 12: ECOLOGICAL INFORMATION

No special determine ecotoxicological data for this product. The following information based on knowledge of the components and the ecotoxicology of similar products.

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12.1. Toxicity

The mixture with poor solubility, May cause physical fouling of aquatic organisms.

Expected nontoxic: LL/EL/IL50 >100 mg/L(For aquatic organisms)

12.2. Persistence and degradability

Not readily biodegradable. Major constituents are inherently biodegradable, but the product contains some of component that may persist in the environment.

12.3. Bioaccumulative potential

Contains components with the potential to bioaccumulate.

12.4. Mobility in soil

It is a liquid under most environmental conditions. Floating on the surface of the water. If into the soil, it will be absorbed by the soil particles and can't be flowing.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No data available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Products: Recovery or recycling as far as possible. It should be evaluate the toxicity and physicochemical properties of the materials in order to develop an appropriate waste classification and disposal methods. Waste oil should be given to the waste oil handing agencies, not disposal in the environment, in drains or water courses.

Containers: Disposed by authorized waste collector or contractor as far as possible.

And Disposal must be in accordance with the provisions of regulations currently in force.

Local legislation: Disposal must be in accordance with applicable regional, national and local laws and regulations.

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Section 14: TRANSPORT INFORMATION

Under the regulations of ADR、IMDG、IATA , the product not classified as dangerous goods.

General vehicles: Rail tankers, oil tanker, the tanker work, barges, oil drums, there is the risk of static electricity build-up. So proper grounding measures should be taken.

Transport temperature: Room temperature

Loading temperature: Room temperature

Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Please observe the local government laws and regulations on chemicals health, hygiene and safety. Not classified under GB13690 standards.

References:

GB 6944-2005: Safety Data Sheet Content and order of dangerous chemicals.

GB / T 16483-2008: Safety Data Sheet Content and order.

GB 13690-1992: Common classification of hazardous chemicals and signs.

GB 12268-2005: List of dangerous chemicals.

GBZ 2.1-2007: Workplace Occupational exposure limits for hazardous chemicals
harmful factors

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

Section 16: OTHER INFORMATION

This product is only used as recommended applications, if have any other applications, please contact the manufacturers.

This information is based on our current knowledge as drafted, The purpose is only from health, safety and environmental provisions to describe the product. This information is not a guarantee that the product composition given performance.