

Vacuum pump oil (Asada Corporation SDS-047)

SAFETY DATA SHEET (SDS)

Date : June 01, 2015

Revision 4 : June 21, 2022

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

1.1. Product identifier

Product name	Vacuum pump oil
Synonyms	VP005, VP083
Chemical formula	Not applicable
Other identifiers	Not available

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

Relevant identified uses	Vacuum pump oil
Used of it discouraged	Not applicable

1.3. Details of the supplier of the safety data sheet

Registered company name	ASADA CORPORATION
Address	3-60 Kamiida Nishi-machi, Kita-ku, Nagoya, Japan
Telephone	+81 52-911-7165
Fax	+81 52-914-2062
Website	https://www.asada.co.jp/
E-mail	sales@asada.co.jp

1.4. Emergency telephone number

Society / Organization	ASADA CORPORATION
Emergency telephone number	+81 52-911-7165
Other emergency telephone number	+81 52-914-1062

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Not applicable
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2.2. Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

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Hazard statements

Not applicable

Supplementary statements

Not applicable

Precautionary statements Prevention

Not applicable

Precautionary statements Response

Not applicable

Precautionary statements Storage

Not applicable.

Precautionary statements Disposal

Not applicable.

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

A mixture of base oil and additives

3.2. Mixtures

1. CAS no. 2. EG no. 3. Index no. 4. REACH no.	% [weight]	Name	Classification according to Regulation (EC) No 1272/2008 [CLP] and amendments	SCL/M factor	Nanoscale form particle properties
1. 64742-54-7 2. Not available 3. Not available 4. Not available	>90wt%	Distillates (petroleum), hydrotreated heavy paraffinic	Not applicable	Not applicable	Not applicable

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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.
Skin contact	Wash with plenty of soap and water and rinse thoroughly.
Inhalation	Move to a fresh air and take a position to breathe promptly.
Ingestion	Rinse mouth immediately and call a medical treatment.

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

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Foam, Water spray or fog, Dry chemical powder, Carbon dioxide

Unsuitable extinguishing media

Rod-shaped water injection

5.2. Special hazards arising from the substance or mixture

Fire hazard	Combustible liquid
Reactivity in case of fire	Combustion probably produces a complex mixture of solid and liquid particles suspended in the air and gases including: metal oxides, nitrogen oxides (NO _x), phosphorous oxides, carbon monoxide, carbon dioxide, unburned hydrocarbons (smoke), hydrogen sulphide and unidentified organic and inorganic compounds. Inhalation is highly dangerous.
Hazardous decomposition products in the event of fire	The incomplete combustion and thermolysis produce more or less toxic gases, such as carbon oxides

5.3. Advice for firefighters

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.

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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

Minor spills	Absorb into dry earth or sand, and dispose by an appropriate method.
Major spills	Remove people from area and move away downwind. Alert fire brigade and tell them location and nature of hazard. Wear respiratory protection and protective gloves.

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.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling	Operation should be in a well-ventilated area. Emergency response equipment should be ready for putting out the fire and leakage processing. Avoid all physical contact, including inhalation. Wear protective clothing if there is a risk of exposure.
Fire and explosion protection	See Section 5
Other information	Post Warning signs of "no smoking" in workplace.

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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.

Hazard categories in according with Regulation (EC) No. 1272/2008	Not available
Qualifying quantity (tons) of dangerous substances as referred to in Article 3 (10) for the application of	Not available

7.3. Specific end uses

See Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Occupational Exposure Limits

Not available

Emergency limits

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard “physically” away from the worker and ventilation that strategically “adds” and “removes” air in the work environment.
8.2.2. Personal protection	Not available
Eye and face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	See Hands/Feet protection
Hands/Feet 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.)
Body protection	See other protection
Other protection	No special equipment needed when handling small quantities. Overalls, Barrier cream, Eyewash unit

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8.2.3. Environmental exposure controls

See Section 12

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid	pH (as supplied)	Not available
Color	Colorless and transparent	Kinematic viscosity (mm ² /s)	(40°C) : 41.4~50.6
Odor	Characteristic of Petroleum	Viscosity index	112
Odor threshold	Not available	Solubility	Insoluble in water
Melting point/ Freezing point (°C)	Not available	Partition coefficient: n-octanol/water	Not available
Initial boiling point and boiling range (°C)	Not available	Vapor pressure (kPa)	Not available
Flammability	Not available	Relative density	Not available
Upper explosive limit (%)	Not available	Relative vapor density	Not available
Lower explosive limit (%)	Not available	Particle properties	Not available
Flash point (°C)	232	Pour point (°C)	-10
Auto-Ignition temperature(°C)	Not available	Ultimate vacuum (kPa)	1.9×10 ⁻³
Decomposition temperature	Not available		

9.2. Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	Stable under recommended transport or storage.
10.2. Chemical Stability	Stable at room temperature May play a harmful response under special conditions
10.3. Possibility of hazardous reactions	React with strong oxidizers
10.4. Conditions to avoid	Avoid exposure to moisture, heat, flame, extreme temperatures, sunlight, and incompatible materials.
10.5. Incompatible materials	Halogens, Strong acids, Alkalis, Oxidizers
10.6. Hazardous decomposition products	Carbon monoxide may be produced when burned.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled	The substance is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). If inhalation of vapors or mists, may cause irritation of the throat with a feeling of tightness in the chest.
Ingestion	The substance has not been classified as "harmful if swallowed" by EC Directives or other classification systems. Swallowing it may cause digestive discomfort.
Skin contact	The substance is unlikely to cause irritant dermatitis as described in EC Directives. Skin should not be exposed to this liquid if skin is bruised or inflamed. 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	The substance is not considered an irritant (as classified under EC Directives). Direct eye contact is expected to be slightly irritating and redness.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); exposure by all routes should be minimised as a matter of course.

Distillates (petroleum), hydrotreated heavy paraffinic	Toxicity	Irritation
	Acute peroral toxicity Low toxicity expected : LD50(rat) > 5000mg/kg Acute dermal toxicity Low toxicity expected : LD50(rat) > 5000 mg/kg Acute inhalation toxicity No data available	Not available

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

Acute toxicity	✗	Carcinogenicity	✗
Skin irritation/corrosion	✗	Reproductive toxicity	✗
Serious eye damage/irritation	✗	STOT-Single exposure	✗
Respiratory or skin sensitisation	✗	STOT-Repeated exposure	✗
Germ cell mutagenicity	✗	Aspiration Hazard	✗

Legend ✗ Date either not available or does not fill the criteria for classification

✓ Date available to make classification

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.

11.2. Information about other hazards

11.2.1. Endocrine disrupting properties

Not available

11.2.2. Other information

See Section 11.1.

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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.

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

Ingredient	Persistence: water/soil	Persistence: air
Distillates (petroleum), hydrotreated heavy paraffinic	Not readily biodegradable. Major constituents are inherently biodegradable, but the product contains some of component that may persist in the environment.	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

Ingredient	Bioaccumulation
Distillates (petroleum), hydrotreated heavy paraffinic	Contains components with the potential to bioaccumulate.

12.4. Mobility in soil

Ingredient	Mobility
Distillates (petroleum), hydrotreated heavy paraffinic	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

	P	B	T
Relevant available date	Not available	Not available	Not available
PBT	X	X	X
vPvB	X	X	X

PBT criteria met?	Not applicable
vPvB	Not applicable

12.6. Endocrine disrupting properties

Not available

12.7. Other adverse effects

Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Products / Packaging disposal	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 handling agencies, not disposal in the environment, in drains or water courses. Disposal must be in accordance with applicable regional, national and local laws and regulations. Packaging: Disposed by authorized waste collector or contractor as far as possible. Disposal must be in accordance with applicable regional, national and local laws and regulations.
Waste treatment options	Not available
Sewage disposal options	Not available

SECTION 14: TRANSPORT INFORMATION

Danger label

Marine pollutant	Not
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Land transport (ADR): NOT REGULATED UNDER FOR DANGEROUS SUBSTANCES

14.1. UN number	Not applicable	
14.2. UN proper shipping name	Not applicable	
14.3. Transport hazard classes	Class	Not applicable
	Sub-risk	Not applicable
14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable	
14.6. Special precautions for user	Hazard label	Not applicable
	Classification code	Not applicable
	Danger label	Not applicable
	Special provisions	Not applicable
	Limited quantity	Not applicable
	Tunnel restriction code	Not applicable

Air transport (ICAO-IATA/DGR): NOT REGULATED UNDER FOR DANGEROUS SUBSTANCES

14.1. UN number	Not applicable	
14.2. UN proper shipping name	Not applicable	
14.3. Transport hazard classes	ICAO/IATA class	Not applicable
	ICAO/IATA subsidiary hazard	Not applicable
	ERG code	Not applicable

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14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable	
14.6. Special precautions for user	Classification code	Not applicable
	Special provisions	Not applicable
	Limited quantities	Not applicable
	Required devices	Not applicable
	Fire cone number	Not applicable

Sea transport (IMDG Code/GGVSee): NOT UNDER REGULATED FOR DANGEROUS SUBSTANCES

14.1. UN number	Not applicable	
14.2. UN proper shipping name	Not applicable	
14.3. Transport hazard classes	IMDG/GGVSee class	Not applicable
	IMDG subsidiary hazard	Not applicable
14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable	
14.6. Special precautions for user	EMS number	Not applicable
	Special provisions	Not applicable
	Limited quantities	Not applicable

Inland waterway transport (ADN): NOT REGULATED UNDER FOR DANGEROUS SUBSTANCES

14.1. UN number	Not applicable	
14.2. UN proper shipping name	Not applicable	
14.3. Transport hazard classes	Not applicable	
14.4. Packing group	Not applicable	
14.5. Environmental hazards	Not applicable	
14.6. Special precautions for user	Classification code	Not applicable
	Special provisions	Not applicable
	Limited quantities	Not applicable
	Required devices	Not applicable
	Fire cone number	Not applicable

14.7. Transport in bulk according to annex II of MARPOL and the IBC Code

Not applicable

14.8. Bulk transport according to MARPOL Annex V and the IMSBC Code

Product name	group
Distillates (petroleum), hydrotreated heavy paraffinic	Not applicable

14.9. Bulk transport according to the ICG Code

Product name	Ship type
Distillates (petroleum), hydrotreated heavy paraffinic	Not applicable

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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.