

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
 Product name : A102  
 Product code : A102

**1.2. Recommended use and restrictions on use**

Use of the substance/mixture : Oil for vacuum pumps  
 Restrictions on use : Reserved for professional users

**1.3. Supplier**

Pfeiffer Vacuum SAS  
 98, avenue de Brogny - BP 2069  
 Annecy Cedex , 74009  
 FRANCE  
 T +(33) 04 50 65 77 77  
[support.service@pfeiffer-vacuum.com](mailto:support.service@pfeiffer-vacuum.com)

**1.4. Emergency telephone number**

Country	Organization/Company	Address	Emergency number	Comment
USA	American Association of Poison Control Centers	555 King Street, Suite 510 VA 22314 Alexandria	1-800-222-1222	

**SECTION 2: Hazard(s) identification**

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

**GHS US classification**

Not classified

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

**GHS US labeling**

No labeling applicable

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

Other hazards which do not result in classification : Inhalation may cause chemically-induced pneumopathy. Prolonged or repeated contact with the skin may cause dermatitis. The oil used may contain harmful impurities. Not categorised as flammable but is combustible. Regulations forbid the disposal of oils and lubricants in the natural environment. In the event of contact with the eyes: irritation, in particular in the event of prolonged contact.

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

No additional information available

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Mineral oil-based product which need not be classed as a carcinogen as it can be shown that the substance contains less than 3% DMOS extract when measured using the IP 346 method

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	50 – 100	Not classified

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 : Get medical advice/attention if you feel unwell. Protection of emergency staff  
No initiative should be taken that implies an individual risk or the absence of appropriate training. Before trying to rescue the victims, isolate the area from all potential inflammation sources, including by disconnecting the power supply. Ensure adequate ventilation and check that the atmosphere is breathable and without danger before entering confined spaces.

First-aid measures after inhalation : In case of dizziness or nausea, expose the person to fresh air. If symptoms persist, seek medical attention or admit the person to hospital.

First-aid measures after skin contact : Remove contaminated clothing. Wash with water and soap. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : If the person is conscious, rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. If inhalation is suspected (occurrence of vomiting, for example), transfer immediately to hospital.

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

Symptoms/effects after inhalation : Irritation of the respiratory tract due to excessive exposure to emanations, mist or vapour.

Symptoms/effects after eye contact : Eye contact can cause reddening and pain.

Symptoms/effects after ingestion : The ingestion (swallowing) of this product may cause a loss of awareness and coordination.

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

Treat symptomatically. Inhalation may cause chemically-induced pneumopathy. Prolonged or repeated contact with the skin may cause dermatitis.

### SECTION 5: Fire-fighting measures

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

Suitable extinguishing media : Sprayed water with additive, chemical powder, chemical foam, carbon dioxide extinguisher.

Unsuitable extinguishing media : Solid water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Explosion hazard : The increase in pressure resulting from a fire or exposure to high temperatures may cause the explosion of the container.

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- 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<sub>x</sub>), 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 case of fire : Toxic fumes may be released. Carbon oxides.

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

- Precautionary measures fire : Do not enter the danger zone without suitable chemical protection clothing and self-contained breathing apparatus.
- Firefighting instructions : Contain the extinguishing fluids by bunding. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Complete protective clothing.
- Other information : Prevent fire-fighting water from entering drains.

## SECTION 6: Accidental release measures

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

- General measures : Keep non-involved staff away from the spillage area. Alert the security staff. Unless the spillage is minor, the feasibility of any action should be evaluated and if possible submitted to a competent person, trained in managing emergencies. Block the leak if this can be done without danger. Avoid any direct contact with the product. Remain upwind/at a distance from the source. In case of large spillages, alert inhabitants downwind. Remove all sources of ignition if this can be done without danger. Spillages of small quantities of product, particularly in the open where vapours usually disperse rapidly, are dynamic situations that will limit exposure to dangerous concentrations.

Note - the recommended measures are based on spillage scenarios that are the most likely for this product; however, local conditions (wind, air temperature, direction and speed of waves/current) can have considerable influence on the choice of appropriate measures. Local experts should therefore be consulted if necessary. Local regulations may also prescribe or limit the measures to take.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate area. Avoid contact with eyes and skin. Do not breathe vapor.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment.

### 6.2. Environmental precautions

Avoid discharge or leakage into drains, trenches or rivers by using sand, soil or other appropriate barrier. In the event of spreading, alert the competent authorities if the situation cannot be quickly and efficiently managed.

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

- For containment : Limited spillage: Absorb the liquid with sand or soil. Gather up and place in an appropriate container, clearly marked, for disposal in accordance with regulations.  
Major spillage: Prevent any spreading by using a barrier of sand, soil or other material to contain the product. Gather up the product directly or with absorbent material. Dispose of as for limited spillage. Do not discharge the recovered product as is into the Environment.
- Methods for cleaning up : Clean up residues in the contaminated area with plenty of water.

### 6.4. Reference to other sections

Reference to other sections for waste disposal, see section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Provide local exhaust or general room ventilation. Do not breathe vapor. Avoid contact with skin and eyes. Keep away from heat or sources of ignition. Wear personal protective equipment. Keep the container hermetically sealed.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands after each use. Do not eat, drink or smoke during work.

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

- Storage conditions : Protect from moisture. Protect from light. Keep away from heat or sources of ignition.
- Incompatible materials : Strong oxidizing agents. reducing agents. Strong acids. Strong bases.
- Information on mixed storage : The recommended materials for the containers or container linings: soft steel, stainless steel.  
Not to be used: some synthetic materials may not be appropriate for the containers or their lining depending on the properties of the materials in question and the intended use. Compatibility should be verified by consulting the manufacturer. Only store in the original container or a container adapted to this type of product. Keep the containers tightly sealed and correctly labelled. Protect from direct sunlight. Empty containers may contain vapours or harmful, flammable or explosive residue. Do not cut, crush, drill, weld, reuse or throw away containers unless the proper precautions have been taken to counter these risks.
- Special rules on packaging : Only use hydrocarbon-resistant containers, seals, pipes, etc.
- Packaging materials : Keep in original containers closed. Empty packaging may contain flammable or explosive vapours.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>A102</b>
No additional information available
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>
No additional information available

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release into natural bodies of water, waste water or the soil.

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

##### Personal protective equipment:

Use clean and properly maintained personal protective equipment.

Store personal protective equipment in a clean area away from the work area.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation, especially in enclosed areas.

<b>Hand protection:</b>
Impervious protective gloves. Breakthrough time : refer to the recommendations of the supplier
<b>Eye protection:</b>
Goggles with lateral protection

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### Skin and body protection:

Avoid any skin contact. Depending on the conditions, face shields, hydrocarbon-resistant boots and clothing, or protective footwear should be worn.

### Respiratory protection:

If ventilation is inadequate, suitable respiratory protection must be worn. Gas cartridge suitable for organic substances.

### Thermal hazard protection:

Heated product causes burns.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear liquid.
Color	: light brown
Odor	: Hydrocarbon compound
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 195 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Combustible liquid.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: < 1
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 100 mm <sup>2</sup> /s (40°C)
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive.
Oxidizing properties	: non-oxidizing.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable at room temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No known dangerous reactions under normal conditions of use.

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### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
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	: > 100 mm <sup>2</sup> /s (40°C)
Symptoms/effects after inhalation	: Irritation of the respiratory tract due to excessive exposure to emanations, mist or vapour.
Symptoms/effects after eye contact	: Eye contact can cause reddening and pain.
Symptoms/effects after ingestion	: The ingestion (swallowing) of this product may cause a loss of awareness and coordination.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Water-insoluble mixture. May settle in deposits and physically ensnare aquatic organisms.

### 12.2. Persistence and degradability

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Persistence and degradability	Not readily biodegradable.
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

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Ecology - soil	Largely insoluble, floats and tends to drift from water to land. Susceptible to disperse into sediment and the solid phase of waste-water.
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### 12.5. Other adverse effects

Other information : Regulations forbid the disposal of oils and lubricants in the natural environment.

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of in accordance with the local/national safety regulations in force.  
Product/Packaging disposal recommendations : Empty the container completely.  
Keep label on container. Deliver to an approved disposal facility.  
Additional information : Regulations forbid the disposal of oils and lubricants in the natural environment. It is recommended to avoid or reduce waste production as much as possible.

The disposal of this product, solutions and by-products shall comply with the legal requirements for environmental protection and waste disposal and the requirements of all local authorities at all times.

A licensed waste disposal contractor will be in charge of the disposal of surplus and non-recyclable products. Do not evacuate untreated waste into the sewers.

Only dispose of this product and its container by taking all standard precautions. Handle non-cleaned and non-rinsed containers with care. Empty containers or liners may retain product residues. Avoid dispersing spilled materials, as well as their leakage, and any contact with the soil, waterways, drains and sewers.

- Ecology - waste materials : Unused residues of the product must be considered as dangerous waste.

### SECTION 14: Transport information

In accordance with DOT / 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 (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

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

- DOT**  
Transport hazard class(es) (DOT) : 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 (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

- Other information : No supplementary information available.

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### 14.6. Special precautions for user

Special transport precautions : For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

#### DOT

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

IBC code : No available data for bulk transport in accordance with annex II of the MARPOL 73/78 Convention and the IBC Code; if necessary, consult the supplier.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Not applicable
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No. 64742-54-7	50 – 100%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

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Revision date : 6/9/2023



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Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative
TLM	Median Tolerance Limit

NFPA health hazard

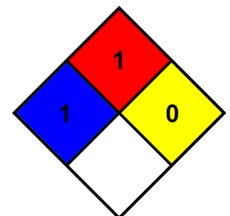
: 1 - Materials that, under emergency conditions, can cause significant irritation.

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.



Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.