

MATERIAL SAFETY DATA SHEET: A111
Reference : A111 MSDS
1. PRODUCT: SOME SUBSTANCE OR PREPARATION OF THE SOCIETY:
Product name: A111 OIL (p/n 064656, 064655, 068854...)

- Commercial use: vacuum pump lubricant

Supplier: ALCATEL VACUUM TECHNOLOGY FRANCE

98 avenue de BROGNY

BP 2069

74009 ANNECY CEDEX

FRANCE

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Emergency telephone number: (33) 4 50 65 77 77

The time schedule: 8 a m to 12 a m and 2 p m to 5 p m

2. INFORMATION ON INGREDIENTS:

Synthetic oil (long chain alkyl benzene)

Ingredients contributing to risks: None to our knowledge.

Impurities contributing to risks: None.

 - Cas No: **68855-24-3**
3. IDENTIFICATION OF HAZARDS:
Harmful effects on health:

- Under standard conditions of use, this product does not present a risk of acute intoxication. It does not irritate the eyes or the skin and it should not induce sensitisation.

Effects on the environment:

- Experiments conducted on similar new products indicate that it should represent a low risk for life in water and on land but it isn't expected that it is easily biodegradable. Regulations prohibit the discharge of oils and lubricants in the environment.

Physical and chemical hazards:

- No particular risk of inflammation or explosion.

Specific risks:

- None to our knowledge, in normal use.

depending on the case: in the event of contact with the skin by a high pressure jet, there is a risk of the product entering the body. The patient must be brought to a hospital, even if there is no obvious wound.

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4. FIRST AID MEASURES:

- In the event of severe disorders, call a doctor or request immediate medical help.
- Information in the event of:
 - * **Contact with skin:**
After contact with skin, wash immediately with large quantities of water and soap.
 - * **Contact with eyes:**
Wash eyes immediately, separating the eyelids, with large quantities of water for at least 15 minutes and consult a specialist.
 - * **Ingestion:**
No special treatment is generally required.
Do not make the patient vomit to prevent risks of aspiration in the respiratory tract.
 - * **Aspiration:**
If the product is suspected to have been sucked into the lungs (e.g. during vomiting), transport the patient to a hospital immediately.

5. FIRE CONTROL MEASURES:

Extinguishing methods:

- Recommended: foam, CO₂, powder, water mist
- Not recommended: water jet

Specific risks (in the event of fire or explosion):

Incomplete combustion and thermolysis produce gases of varying toxicity such as CO, CO₂, various hydrocarbons, aldehydes, etc., and soot. These substances are very dangerous when inhaled.

Protection of personnel:

- An insulating breathing apparatus must be worn due to the abundant fumes and the dangerous gases.

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6. MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL DISPERSION:

Individual precautions:

According to the risks of exposure, wear gloves, goggles, boots and clothing which are impervious to hydrocarbons. Surfaces may become slippery due to spillages of product.

Precautions for environmental protection:

Design installations and take all the measures required to prevent pollution of water or soil. Protect sewage systems from possible spillages, in order to minimise the risks of pollution. In the event of spreading, notify the relevant authorities if the situation cannot be controlled quickly and effectively. Protect environmentally sensitive areas and water resources.

Cleaning methods:

Recovery: using a physical method (pumping, skimming, etc.), contain spillages and recover them using sand or any other inert absorbent material; do not discharge in the sewage system. Send contaminated materials to an approved treatment company.

7. STORAGE AND HANDLING:

Technical measures:

Prevent of personnel exposure: provide sufficient ventilation in the event of a risk of the formation vapours, mists or aerosols. Adopt any measures making it possible to risks of exposure, in particular to oils in use or used oils. Do not store with flammable products (fuel) or with food products.

Prevention of fires and explosions: empty packaging may contain flammable or explosive vapours. Cloths impregnated with product, paper or materials used to absorb spillages represent a fire hazard. Prevent them from accumulating. Eliminate them immediately in complete safety after use.

Precautions:

In order to reduce the fire hazard, design installations to prevent:

- accidental projections of product (e.g. seal break) on hot casings and electrical contacts.
- accidental leakages of oil in a pressurised circuit result in finely pulverised flammable jets (the lower limit of flammability of the oil mist is reached for concentrations of approximately 45 g/m³).

Prolonged, repeated contact with the epidermis may cause skin infections favoured by small wounds and rubbing against contaminated clothing.

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Avoid splashes. After contact with skin, wash immediately with large quantities of water and soap; do not use any abrasive products, solvents or fuels.
 Do not wipe hands with cloths that have been used for cleaning.
 Remove all contaminated or splashed clothing immediately.
 Do not breathe in vapours, fumes or mists.
 Do not eat, drink or smoke during use.
 Drain the metal machining vessels regularly since the risk generally increases with the wear and degradation of the oil.

Recommendations for use (incompatible materials, etc.)

Prevent contact with strong oxidising agents.
 Only use hydrocarbon-resistant containers, seals, pipes, etc...

STORAGE:

Storage conditions:

Recommendations (specific information - capacity limits, quantities, etc. according to national regulations):
 Store at ambient temperature away from water, moisture and all sources of ignition.
 Keep containers closed when not in use.
Design installations and take all the measures required to prevent pollution of water or soil.
 Avoid storage subject to adverse weather conditions.

Incompatible materials:

Dangerous reaction with strong oxidants.

Packaging materials:

Recommendations: only use hydrocarbon-resistant containers, seals and pipes, etc.
The product should preferably be kept in its original packaging; otherwise, mark all the information on the regulatory label onto the new packaging.

8. EXPOSURE INSPECTION / INDIVIDUAL PROTECTION:

Professional exposition standard: No standard established
 Technical verification: No specific requirement
 Respiratory protection: Normally not required
 Hand protection: Nit rile gloves
 Eyes protection: Wear protective goggles or a complete facial shield, if there is a risk of splashes
 Body protection: Wear boots, hydrocarbon-impervious clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state:	Liquid
Appearance:	Colourless
Odour:	Light hydrocarbon
Flow point:	-27°C (typical)
Flash point:	195°C (typical)
Boiling point (initial) :	>300°C
Density at 15°C:	0.869 (typical)
Kinematic viscosity at 40°C:	103 mm ² /s (cst) (typical)
Kinematic viscosity at 20°C:	540 mm ² /s (cst) (typical)
Soluble with certain standard organic solvents	
non-soluble (1 < mg/l) and non-miscible in water	

10. STABILITY AND REACTIVITY:

Product stable at standard storage, handling and operating temperatures.

Dangerous reactions:

Conditions to be avoided: heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Materials to avoid: strong oxidants

Dangerous breakdown products: incomplete combustion and thermolysis produce gases of varying toxicity such as CO, CO₂, various hydrocarbons, aldehydes, etc. and soot.

11. TOXICOLOGICAL INFORMATION:

The following data are based on the toxicology of similar products:

Oral acute toxicity: It is most probably low: LD50 (oral, rat): > 5000 mg/kg

Dermic acute toxicity: It is most probably low: LD50 (, rat): > 2000 mg/kg

Inhalation acute toxicity: no toxicity measured

Eyes irritation: not expected

Skin irritation: not expected

Skin sensibilisation: not expected

12. ENVIRONMENTAL INFORMATION:

The ecotoxicologic data were not determined specifically

The following data are based on the knowledge of the ingredients and the ecotoxicology of similar products

Acute toxicology for fishes: not noxious for fished at the water solubility level (<1 mg/l).

Mobility: No data available

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Persistence/Degradability: Risk of long term noxious effects in the aquatic environment
 Bioaccumulation: no data available

13. INFORMATION ON PRODUCT ELIMINATION:

Elimination of waste material: It should meet the (ECD european waste catalogue codification: 07-02-99

Elimination of contaminated packaging: The packaging which contained the product should be considered as dangerous waste.

14. INFORMATION ON TRANSPORTATION:

The product is not considered as dangerous in transit.
 It is not concerned by the RID, ADR, ADNR, IMDG, and IATA-DGR regulations.

15. REGULATORY INFORMATION

Classification – Labeling: According to the following european directives:
 CEE/67/548 (dangerous substances)
 CEE/88/379 (dangerous preparations)
 CE Classification CE : none
 CE Symbol: None
 CE phrase risk: R53: Can cause harmful effects on the aquatic environment
 Security phrase CE: S60: Eliminate the product and its packaging as a dangerous waste
 Classification WGK : WGK = 1 (auto-classification)

INTERNATIONAL INSCRIPTION :

CE (EINECS): This product was recorded according to the regulation.
 ETATS-UNIS (TSCA): This product was recorded according to the regulation.
 Japan (MITI): This product was recorded according to the regulation. .
 Canada (DSL): This product was recorded according to the regulation. .
 Australia (AICS): This product was recorded according to the regulation.

16. OTHER INFORMATION

This sheet meets the European directive 2001/58/EC

The information given in this sheet is based on our knowledge concerning the product in question, on the date of edition of this sheet, and is given in good faith. Users should also

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pay attention to the risks which may be involved when a product is used for purposes other than that for which it was originally intended.

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