

**MATERIAL SAFETY DATA SHEET: A113**

**Reference : A113 MSDS**

**1. PRODUCT: SOME SUBSTANCE OR PREPARATION OF THE SOCIETY:**

**Product name:** A113 OIL (FOMBLIN YL VAC 25/6)

- Commercial use: vacuum pump lubricant
- Adixen p/n: 100424, 064658, 064662

**Supplier:** ALCATEL VACUUM TECHNOLOGY FRANCE  
 98 avenue de BROGNY  
 BP 2069  
 74009 ANNECY CEDEX  
 FRANCE

**Telephone:** (33) 4 50 65 77 77

**Fax:** (33) 4 50 65 77 89

**Person to contact:** AVTF Quality Manager

**Email:** [Jean-Loup.MONBEIG@adixen](mailto:Jean-Loup.MONBEIG@adixen)

**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

**Emergency Overview:**

Clear, colorless liquid. Thermal decomposition will generate hydrogen fluoride (HF), which is corrosive.

**2. INFORMATION ON INGREDIENTS:**

Name of ingredients:

- (S) parafluoropropene and oxygen polymerized, amide derivative (CAS not assigned)
- Propene, 1,1,2,3,3,3-hexa-fluoro, oxidized, polymerized (CAS 69991-67-9)

**3. IDENTIFICATION OF HAZARDS:**

**Effects of Overexposure:**

Eye contact may cause slight irritation.

Skin contact may cause slight irritation.

Inhalation of vapors or mists may cause irritation of the mucous membranes and respiratory tract.

Ingestion: Not an expected exposure route. Ingestion may cause nausea and vomiting.

Cannot be reproduced without written authorisation

**MATERIAL SAFETY DATA SHEET: A113**

**Reference : A113 MSDS**

**4. FIRST AID MEASURES:**

**Eye Contact:**

Flush eyes for 15 minutes with copious amounts of water, retracting eyelids often. Seek medical attention if irritation persists.

**Skin Contact:**

Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if irritation persists.

**Inhalation:**

If symptoms of irritation or discomfort are experienced, or person is overcome by exposure, remove to fresh air. Give oxygen or artificial respiration as needed.

**Ingestion:**

If conscious, drink three to four 8 ounce glasses of water or milk. Call a physician. If unconscious, immediately take affected person to a hospital. Do not give anything by mouth to an unconscious person.

**5. FIRE CONTROL MEASURES:**

Flash Point: Not Applicable

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Autoignition Temperature: Not Applicable

Extinguishing Media: Water (spray or fog), foam, dry chemical or carbon dioxide (CO2).

**Unusual Fire Hazards:**

Fluor polymers will degrade upon prolonged heating or in a fire, liberating hydrogen fluoride (HF) and carbonyl fluoride (COF2).

This gas is toxic if inhaled or it comes into contact with moist skin. HF has an ACGIH PEL TLV (8hr TWA) of 0.5ppm and a ceiling limit of 2 ppm (1.7mg/m3). COF2 has an ACGIH TLV of 2 ppm (5.4 mg/m3) and an OSHA PEL TWA of 2 ppm (5 mg/m3).

**Fire Fighting Procedures:**

Use self contained breathing apparatus (SCBA) and skin protection for acid gas exposure. Do not enter fire area without proper protection. Fight fire from safe distance.

If possible, air monitoring should be performed.

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

**Releases:** In case of a release or spill, absorb material onto vermiculite or similar inert absorbent.

Use Perfluorosolv0 PFS-1 Solvent to clean up any remaining liquid.

Place spilled material into covered container for disposal.

Cannot be reproduced without written authorisation

**MATERIAL SAFETY DATA SHEET: A113**

**Reference : A113 MSDS**

Dispose of according to applicable local, state and federal regulations.  
 Extinguish all ignition sources and evacuate the area.  
 Exercise caution; spill area may be slippery.

**7. STORAGE AND HANDLING:**

Wash hands after use and before handling food or applying cosmetics.  
 Do not use tobacco products in the immediate area.  
 Keep containers closed.  
 Keep away from heat, sparks and flames.  
 Do not store near combustible materials.

**8. EXPOSURE INSPECTION / INDIVIDUAL PROTECTION:**

**ACGIH Threshold Limit Value (8 hr. time weighted average)**

None established

**OSHA Permissible Exposure Limit (8 hr. time weighted average)**

None established

**Engineering Controls:**

**Ventilation Requirements:**

Local Exhaust: Vent vapors or mists generated by processing away from operating personnel.  
 Local exhaust ventilation at a rate of 50 feet per minute.

**Personal Protective Equipment:**

**Respiratory Protection:**

No occupational exposure standards have been developed for this material. In situations where exposure to vapors or mists is likely, NIOSH/MSHA approved acid and organic vapor respirators are recommended.

Respirator use limitations made by NIOSH/MSHA or the manufacturer must be observed.

Respiratory protection programs must be in accordance with 29 CFR 1910.134.

**Eye/Face Protection:**

ANSI Z87.1 approved safety glasses with side shields or equivalent, safety goggles.

**Skin Protection:**

Rubber or latex gloves recommended but not necessary.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Clear Liquid  
 Color: Colorless  
 Odor: Odorless  
 Vapor Pressure: Not available  
 Vapor Density (Air= 1): Not available  
 Boiling Point: Not available

**MATERIAL SAFETY DATA SHEET: A113**

**Reference : A113 MSDS**

Melting Point: Not available  
 Specific Gravity: Not available  
 Solubility in Water: Insoluble

**10. STABILITY AND REACTIVITY:**

**Stability:**

This material is stable.

**Reactivity:**

This material is not reactive.

**Conditions to Avoid:**

Heat, sparks, flames, and other ignition sources; avoid heating above 250o C/482 F.

**Incompatibility/Materials to Avoid:**

Strong alkaline compounds (alkaline hydroxides, ammonia, non-aqueous alkalis), halogenated compounds, Lewis acids (AlCl3, SbF5, C F3), magnesium, aluminum and their alloys above 100 C/212 F.

**Hazardous Decomposition Products:**

Thermal decomposition of this product will generate hydrogen fluoride (HF), which is corrosive, causing burns on contact with skin and other tissue.

**11. TOXICOLOGICAL INFORMATION:**

Toxicology data listed are for propene, 1, 1, 2, 3, 3, 3-hexafluoro, oxidized, polymerized:

Rat oral LD50: greater than 25.65 g/kg

Rat intraperitoneal LD50: greater than 25 g/kg

Rat dermal LD50: greater than 2 g/kg

Rabbit skin irritation: not irritating

Rabbit eye irritation: not irritating

Guinea pig sensitization: not a sensitizer

**12. ENVIRONMENTAL INFORMATION:**

No ecological information is available for this material.

**13. INFORMATION ON PRODUCT ELIMINATION:**

Waste Disposal: Material, as supplied, is not a hazardous waste. Incinerate in a high-temperature incinerator designed to burn fluorine-containing materials, according to current federal, state and local regulations. Processing, use or contamination may make this information inaccurate or incomplete.

Cannot be reproduced without written authorisation

**MATERIAL SAFETY DATA SHEET: A113**

**Reference : A113 MSDS**

**14 TRANSPORTATION INFORMATION:**

Shipping Class: Not regulated by DOT.

**15 REGULATORY INFORMATION:**

All components of this product are listed on the Toxic Substances Control Act (TSCA) Section 8(b) Chemical Inventory.

This product is not a "hazardous substance" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials

Information System (WHMIS).

SARA Section 302 Extremely Hazardous Substances: Not listed

SARA 311/312: Acute: No

Chronic: No

Fire: No

Reactivity: No

Sudden Release of Pressure: No

SARA Section 313 Toxic Chemicals: Not listed

**16 ADDITIONAL INFORMATION:**

NFPA Ratings (Scale of 0-4):

Health = 1

Fire = 0

Reactivity = 0

This sheet completes the technical user manual but does not replace it. The information that it contains 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 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.

No guarantees can be given on the accuracy of the information contained in this sheet. The sheet, given to our customers in good faith in the sole aim of informing and helping them in their research, cannot be considered to provide an absolute or implicit guarantee related to its use. Consequently, ALCATEL VACUUM TECHNOLOGY FRANCE or ALCATEL subsidiaries cannot be held responsible for damage of any type related to the publication of this document. Similarly, none of the information it contains should be interpreted as an authorisation or recommendation for the use of products which would cause an infringement of patent rights.