

MATERIAL SAFETY DATA SHEET : ABG400

Reference : ABG 400 MSDS

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

Product name: ABG 400

- Commercial use: Turbo pump bearing lubricant
 (delivered by AVTF in syringes p/n 200027 to 200031)

Supplier: ALCATEL VACUM 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*

Email : Jean-Loup.MONBEIG@adixen

Person to contact: AVTF Quality Manager

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 pm

2. INFORMATION ON INGREDIENTS:

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1220.

3. HAZARDS IDENTIFICATION :

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

4. FIRST AID MEASURES:

Inhalation : If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention.

Ingestion : If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Skin contact : Wash off with soap and water. Get medical attention if symptoms occur. Wash clothing separately before reuse.

Eye contact : immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media : Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable extinguishing media : do not use a solid water stream as it may scatter and spread fire.

MATERIAL SAFETY DATA SHEET : ABG400

Reference : ABG 400 MSDS

Hazardous combustion products : carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Acrolein. Formaldehydes. Ketones. Hydrogen fluoride. Carbonyl fluoride.

Protective equipment and precautions for firefighters : wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Use water spray to cool unopened containers. Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions : observe precautions from other sections. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions : prevent entry into waterways, sewers, basements or confined areas.

Methods for containment up : Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up : Soak up with inert absorbent material. Clean contaminated surface thoroughly. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE:

Handling : Do not handle or store near an open flame, heat or other sources of ignition. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Avoid contact with eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid breathing gas/vapors/mist/fumes. Do not take internally. Do not taste or swallow.

Storage : Keep away from heat and sources of ignition. Store in cool place. Store in a closed container away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

Exposure limits :

- **ACGIH** None available
- **OSHA** None available

Engineering controls : Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye/face protection : Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection : Wear nitrile, neoprene, PVC or viton gloves. Wear suitable protective clothing.

Respiratory protection : no personal respiratory protective equipment normally required. An air purifying respirator with an organic vapor cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits, or if accordance with 29 CFR 1910.134.

MATERIAL SAFETY DATA SHEET : ABG400

Reference : ABG 400 MSDS

General hygiene considerations : When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Keep away from food and drink.

9. PHYSICAL AND SECURITY TECHNICAL DATA:

Color :	Light yellow
Odor :	Slight
Odor threshold :	Not available
Form :	Semi-solid
pH :	Not available
Melting point :	Not available
Freezing point :	Not available
Boiling point :	Not available
Flash point :	> 400 °F (> 204.4 °C) ASTMD-92
Evaporation rate :	Not available
Flammability :	Not available
Flammability limits in air, upper, % by volume :	Not available
Flammability limits in air, lower, % by volume :	Not available
Vapour pressure :	Not available
Vapour density (air=1) :	Not available
Density :	1 g/cm ³
Solubility (water) :	Not available
Partition coefficient (n-octanol/water) :	Not available
Auto-ignition temperature :	Not available
Decomposition temperature :	Not available

10. STABILITY AND REACTIVITY:

Chemical stability : Stable.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong acids, alkalies and oxidizing agents. Alkaline metals.
 Alkaline

earth metals. Powdered metals. Halogenated compounds.

Hazardous decomposition: Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen fluoride. Carbonyl fluoride.

MATERIAL SAFETY DATA SHEET : ABG400

Reference : ABG 400 MSDS

11. TOXICOLOGICAL INFORMATION:

Acute effects : Inhalation of decomposition products may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough. Refer to Hazards Identification Section for additional information.

Carcinogenicity : This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC and NTP.

12. ECOLOGICAL INFORMATION:

Ecotoxicity : This material is not expected to be harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS:

Disposal instructions : Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. TRANSPORT INFORMATION:

Department of Transportation (DOT) Requirements : Not regulated as dangerous goods.

15. REGULATORY INFORMATION:

CERCLA (Superfund) reportable quantity : None
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories : Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - No
 PressureHazar - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance : No

Section 311 hazardous chemical : No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes

MATERIAL SAFETY DATA SHEET : ABG400

Reference : ABG 400 MSDS

Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ESL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

State regulations : This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION:

HMISO ratings
 Health: 0
 Flammability: 1
 Physical hazard: 0

NFPA ratings
 Health: 3
 Flammability: 1
 Instability: 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.