

**MATERIAL SAFETY DATA SHEET: A155**

**Reference : A155 MSDS**

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

**Product name:** A155

- Use: vacuum pump lubricant
- Adixen p/n : 109233

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

**Telephone:** (33) (0)4 50 65 77 77

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**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 7 p m

**2. INFORMATION ON INGREDIENTS:**

2-1 Name: Phenol : 4,4'-methylenebis[2,6-bis(1,1-dimethylethyl)]

Cas number : 118-82-1

% : 0.5 - 1

EC number: 204-279-1

Classification: Xn; R21

2-2 Name: N-Phenyl-1-naphthylamine

Cas number : 90-30-2

% : 0.1-0.5

EC number: 201-983-0

Classification: Xn; R20/22

R43

N ; R50/53

2-3 Name: Diphenylamine

Cas number : 122-39-4

% : 0.1-0.5

EC number: 204-539-4

Classification: T ; R23/24/25

R33

N; R50/53

**3. IDENTIFICATION OF HAZARDS:**

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R52/53

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Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

**4. FIRST AID MEASURES:**

**Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush skin copiously with water for at least 20 minutes while removing contaminated clothing and shoes. Get medical attention if irritation occurs.

**Skin contact** : Wash with soap and water. Get medical attention if irritation occurs.  
 Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

**Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Not available.

See section 11 for more detailed information on health effects and symptoms.

**5. FIRE FIGHTING MEASURES:**

**Extinguishing media**

Suitable : Use an extinguishing agent suitable for the surrounding fire.  
 Not suitable : None known.

**Special exposure hazards** : No specific hazard.

This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** : The final products of combustion are carbon oxides and water. Nitrogen, sulfur and decomposition products metal oxides may also be produced in some cases.

**Special protective equipments** : Fire-fighters should wear appropriate protective equipment and self-contained equipment for fire-fighters breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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

**Personal precautions :** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

**Environmental precautions :** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

**Methods for cleaning up :** If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain material to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

**7. STORAGE AND HANDLING:**

**Handling :** Avoid contact of spilt material and runoff with soil and surface waterways.

**Packaging materials :** Recommended : Use original container.

**Storage :** Keep container tightly closed. Keep container in a cool, well-ventilated area.

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

Ingredient name :Diphenylamine

Occupational exposure limits according to European standard:  
 ACGIH TLV (United States, 2001).  
 TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms

Occupational exposure limits according to French standard:  
 INRS (France, 2/2005).  
 VME: 10 mg/m<sup>3</sup> 8 hour(s). Form: All forms

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Exposure controls:**

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**Occupational exposure controls:**

No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Eye protection : Safety glasses with side shields.

Hand protection : Natural rubber (latex).

**Hygiene measures :**

Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. During formulation, follow good industrial hygiene practice.

**Environmental exposure controls :**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

**General information**

Appearance

Physical state : Liquid.

Colour : Amber (Light.)

Odour : Mild.

Flash point : Open cup: >240°C (464°F) (Cleveland.).

Relative density : 0.96 (Water = 1)

**10. STABILITY AND REACTIVITY:**

Stability : The product is stable.

Conditions to avoid : None known.

Materials to avoid : Reactive with oxidizing materials and acids.

**11. TOXICOLOGICAL INFORMATION:**

**Potential acute health effects**

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

**Acute toxicity**

Phenol, 4,4'-methylenebis[2,6-bis (1,1-dimethylethyl)-]

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LD50 > 1400 mg/kg (Dermal route for Rabbit )

N-Phenyl-1-naphthylamine

LD50 : 1625 mg/kg (Oral route for Rat )

LD50 : 1231 mg/kg (Oral route for Mouse)

Diphenylamine

LD50 : 1120 mg/kg (Oral route for Rat )

LD50 : 300mg/kg (Oral route for Guinea Pig)

LD50 : 1230mg/kg (Oral route for Mouse)

**Potential chronic health effects**

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

**Over-exposure signs/symptoms:**

Inhalation: known significant effects or critical hazards.

Ingestion: known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

**12. ECOLOGICAL INFORMATION:**

**Ecotoxicity data**

Product : Diphenylamine

Species: result

Daphnia magna (EC50) : 0.31 mg/l - 2 mg/l after 48 hours

Pimephales promelas (LC50): 3.79 mg/l after 96 hours

**Other ecological information**

Persistence/degradability

Products of degradation : The final products of biodegradation are carbon oxides and water. Nitrogen and sulfur oxides and metal salts may also be produced in some cases.

Mobility : Not available.

Other adverse effects :

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**13. DISPOSAL CONSIDERATION :**

Methods of disposal :

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The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

Waste classification :

Dispose of according to all federal, state and local applicable regulations.

Hazardous waste :

The classification of the product may meet the criteria for a hazardous waste.

**14. TRANSPORT INFORMATION:**

Regulatory information

UN/ IMDG/IATA /ADNR/ADR : Not regulated by any transport mode.

**15 REGULATORY INFORMATION**

**EU regulations**

Risk phrases : R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product use : Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

**Other EU regulations**

Additional warning phrases : Contains (N-Phenyl-1-naphthylamine). May produce an allergic reaction.

EU statistical classification (Tariff Code) : 3403 9910

The Restriction of Hazardous Substances in Electrical and Electronic Equipment (ROHS) Directive (2002/95/EC) : in compliance

**National regulations**

France

Professional disease/diseases : Diphenylamine Table number/numbers:15, 15bis

**16 OTHER INFORMATION**

**Full text of R-phrases referred to in sections 2 and 3 (European standard):**

- R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.
- R20/22- Harmful by inhalation and if swallowed.
- R21- Harmful in contact with skin.
- R33- Danger of cumulative effects.
- R43- May cause sensitisation by skin contact.
- R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in sections 2 and 3(European standard):**

- T - Toxic
- Xn - Harmful
- N - Dangerous for the environment.

This sheet meets the 2001/58/CE Directive.

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.

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