

MATERIAL SAFETY DATA SHEET

Directive (EEC) 91-155

CLARFINE

Date: April 6th, 2005

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Ind. Rev.: 0**1 – PRODUCT AND COMPANY IDENTIFICATION**

Trade name: CLARFINE
Generic name: Polyvinylpolypyrrolidone
- Supplier: LAMOTHE ABIET - B.P. 75
33 015 BORDEAUX CEDEX
Tel: +33 (0)5.57.77.92.92 Fax : +33 (0)5.56.86.40.02
- Emergency telephone number: Bordeaux poison center: +33 (0)5.56.96.40.80

2 – CHEMICAL COMPOSITION / INFORMATION ON COMPONENTS

Chemical nature : chemical substance
Additional information
CAS number : 9003-39-8
CAS name : 2 Pyrrolidinone, 1-Ethenyl-, Homopolymer
IUPAC name : Poly (1-ethenyl pyrrolidin-2one)
Concentration : 100%

3 – HAZARDS IDENTIFICATION

Major hazards to human beings and the environment

Main hazards : the product has no noxious effect on health and environment and presents no chemical hazard.

4 – FIRST AID MEASURES

In case of inhalation: Remove casualty to fresh air. If casualty is not breathing, proceed with artificial respiration, mouth to mouth resuscitation preferably.

In case of skin contact: Wash after any contact with other substance.

In case of eye contact: Immediately flush with large amounts of water for at least 15 minutes.

In case of ingestion: Do not induce vomiting. If casualty is conscious, diluted ingested product by giving 2 glasses of water. Seek medical attention.

5 – FIRE-FIGHTING MEASURES

Extinguishing media:

Use media suitable to original cause of fire - For instance : Foam, dry chemical, carbon dioxide.

Water may be inefficient, still it must be used to cool down containers exposed to bare flames.

Additional information: The product emits irritating fumes when it decomposes with heat.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautionary measures:

Maintain container away from heat, bare flames, flames sparks or other sources of ignition. Maintain container closed.

Avoid dust production. Wash thoroughly after handling.

Cleaning measures:

Collect with solid waste and dispose of in accordance with national and local regulations. Flush spill area with copious amounts of water.

7 – HANDLING AND STORAGE

- Handling: Avoid dust inhalation

- Storage: Hygroscopic product, must be stored in its closed package, in a dry place.

8 – EXPOSURE CONTROL/ PERSONAL PROTECTION

-Personal precautionary measures:

- * Ventilation: Use adequate ventilation.
 - * Respiratory protection: Wear protective mask when production of dust due to product handling cannot be avoided and in case of excess of the TLV or PEL
 - * Eye protection: Chemical protective glasses.
 - * Hygiene measures: respect usual hygiene rules, and in particular, wash thoroughly after handling.
- TLV/ TWA-10 mg/m³ total, 5 mg/m³ breathable
PEL: TWA -15 mg/m³ total, 5 mg/m³ breathable
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9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	light and white powder
Odor	:	none
Solution pH	:	5.00-11.00 (1% in suspension)
Solubility	:	Not soluble in water and in most of the solvents.
% of volatile products	:	6.00% of water maximum (Karl Fischer)
Evaporation rate	:	like water
Particle size	:	Sifter 400 (< 37 microns) 70-90%
(Alpine Air Jet Sifter)	:	Sifter 200 (< 75 microns) 95% maximum

10 - REACTIVITY

Stability: 2 years

Reactivity: Hazardous reactions with oxidizers and concentrated reductive agents

11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

By inhalation: No evidence of toxicity for man, guinea-pig or rabbit was observed following exposure to aerosols and dusts of small particles.

By ingestion: LD 50 > 100 g/kg

- Local effect: On eye: On rabbit, no primary eye irritation.
- Sensitization: Long-term toxicology: By ingestion: Studies on rat and dog have shown no toxicity at dosage rates up to 10% of diet (28 and 90 days for rat and 28 and 180 days for dog).

The product has been submitted to a J.E.F.C.A. monography in order to set an authorized daily intake

Specific effects:

- Mutagenesis: According to the tests made on an analogous molecule, the product is not mutagenic.
 - Reproduction toxicity: Teratological studies carried out with an analogous molecule have shown that dosage rates up to 10% of daily diet have neither embryotoxicity-teratogenesis effect nor toxic effect on the foetus.
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12 – ECOLOGICAL INFORMATION

BIODEGRADABILITY: No data available

13 –DISPOSAL CONSIDERATIONS

- Waste disposal: Dispose of residues with waste water in accordance with national and local regulations.
 - Contaminated packages: Dispose of packages with solid waste according to local regulations.
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14 – TRANSPORT REGULATION

Not regulated

15 – REGULATORY INFORMATION

None

16 –OTHER INFORMATION

The information contained in this safety data sheet is based on data considered accurate and true on the production date. However accuracy and exhaustiveness of this information as well as all regulations are given without warranty. Since the conditions of use are out of our control, it is the user's responsibility to determine the correct and safe application of this preparation.
