



LAVIOSA CHIMICA MINERARIA S.p.A.

MATERIAL SAFETY DATA SHEET

LAVIOPOL VS

Safety Data Sheet dated January 2006, version 1
Printing date: 10/06/2008

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Trade name: LAVIOPOL VS

MSDS code: F000966

Chemical description: Polyanionic cellulosic polymer.

Supplier:

LAVIOSA CHIMICA MINERARIA S.p.A. – Via Leonardo Da Vinci 21 57123 Livorno – Italy

Tel. +39 0586 434124 / 434146 / 434149

Fax. +39 0586 434130

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

70% Carboximetilcellulose sodium salt

Xi Irritant

3. HAZARDS IDENTIFICATION

No specific hazards are encountered under normal product use.

4. FIRST AID MEASURES

Contact with skin:

Wash with plenty of water and soap.

Contact with eyes:

Rinse with plenty of water keeping eyelids raised, if necessary seek medical advice.

Ingestion:

Seek medical advice.

Inhalation:

Ventilate the premises. The patient is to be removed from the contaminated premises.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Water mist, CO₂, Foam, Chemical powders.

Extinguishing media to avoid:

Not known.

Risks arising from combustion:

During combustion the preparation may release harmful gases. Do not inhale the fumes.

Protective equipment:

Use protection for the respiratory tract.



Capitale sociale Eur 9.751.825,72 i.v.

Sede legale ed amministrativa:

57123 LIVORNO - Via Leonardo da Vinci, 21 - tel. 0586 434000 - Telex 500053 LAVINC - FAX 0586 410852 - 425301

Stabilimenti : 57123 Livorno - Via Galvani, 20 - Tel. 0586 434000 - Fax 0586 424066

57123 Livorno - Via Leonardo da Vinci, 21 - Tel. 0586 434000 - Telex 500053 LAVINC - Fax 0586 410852 - 425301

Casella Postale 265 - Telegrammi Laviosa - R.E.A. Livorno n. 0105526 - Reg. Imprese di Livorno n. 165032 - Mecc. Li 005006

C.F. - P. IVA n. 01193930490 - COD. ID. CEE IT01193930490 - C/C POST. 11858578

<http://www.laviosa.it>



6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use mask, gloves and protective clothing.

(See also item 8).

Environmental measures:

In case of spill sweep up carefully.

Product on contact with water creates a hazard due to its slipperiness.

Cleaning methods:

If possible recover the product, otherwise collect.

7. HANDLING AND STORAGE

Handling precautions:

The product should be used in well ventilated place. Avoid direct contact with the product (see also item 8).

Avoid accumulating electrostatic charge.

Avoid dust formation.

Keep away from ignition sources.

Do not eat or drink while working.

Storage conditions:

Keep containers closed. Store in a dry place away from moisture.

Instructions as regards storage premises:

Adequate ventilation in working area.

Packaging suggested:

Paper bags, internal P.E.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Use approved organic dust respirator when there is a risk of dust exposure.

Protection for hands:

Gloves.

Eye protection:

Use close fitting safety goggles.

Protection for skin:

No special precaution must be adopted for normal use.

Exposure limit(s) (ACGIH):

TLV-TWA: 10 mg/m³ referred to powder (ACGIH 1998).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: White powder

Odour: No

pH: 6,5 - 10,5 (10 g/l water)

Melting point: N.A.

Boiling point: N.A.

Flash point: N.A.

Decomposition temperature: about 230°C

Autoignition temperature: N.A.

Explosive properties: Class ST 1 (Danger of dust explosion)*

Relative density: 0,5 - 0,8 kg/l at 20°C

Solubility in water: Soluble

* = UDI 3676-Par.I Nov.'92-Pag.9



10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

Strong oxidizers.

Hazardous decomposition products:

Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Skin contact: No irritation or sensitization.

Eye contact: Frequent and prolonged contacts may cause slight irritation.

Inhalation: Prolonged dust exposure may cause slight and temporary irritation to the respiratory tract.

Acute oral toxicity on rats (LD50): > 2000 mg/kg*

* = Literature data.

12. ECOLOGICAL INFORMATION

Use according to criteria of good industrial practice, avoiding product dispersion in the environment.

WGK: Water pollution class (auto-classification): 1.

13. DISPOSAL CONSIDERATIONS

If possible recover the product, otherwise dispose of in authorized landfill or incinerate in accordance with local regulation.

14. TRANSPORT INFORMATION

Road (ADR): N.A.

Rail (RID): N.A.

Air (ICAO/IATA): N.A.

Sea (IMO): N.A.

15. REGULATORY INFORMATION

Main general legislation, when and if applicable :

Current European regulations relating classification, packaging and labelling of dangerous substances and preparations and current adaptation of Council Directive 67/548/EEC.

The product is not considered dangerous.

Refer to other local regulations that may be relevant (i.e. : sanitary control, waste treatment etc.)

16. OTHER INFORMATION

As organic product, usual precautions to avoid explosion of dusts are recommended.

N.A. = Not Applicable

N.D. = No Data

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

CESIO - Classification and labelling of anionic, nonionic surfactants (1990)

M.Sittig-Handbook of toxic and Hazardous Chemicals and Carcinogens- III Ed.

E.R. Plunkett - Handbook of Industrial Toxicology - III Ed. 1991.

SAX'S Dangerous Properties of Industrial Materials. VIII (1993)

Samson Chem. Pub.-Chemical Safety Sheet working safely with hazardous chemical.

ACGIH "2001 TLV"

ILV "2000/39/EC Directive"



The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force. This leaflet is offered for your consideration and guidance only.

This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue.

Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.