

Material Safety Data Sheet

1. Identification of the substance and the company

1.1 Identification of the substance

Trade name
Description/Use

LAVATUTE
WASHING-MACHINE DETERGENT FOR WORKSHOP CLOTHES,
OVERALLS, JEANS, WINDCHEATERS, TABLE CLOTHS.
FOR WASHING MACHINE

1.2 Identification of the company

Company name
Address
Postal town and country

TINTOLAV s.r.l.
Via Massimo D'Antona, 7
10028 TROFARELLO (TO)
ITALY
tel. +39 011/6496827
fax +39 011/6496742
tel. +39 02/66101029

Emergency telephone number: Ospedale
Niguarda (MI), Poison prevention centre

2. Composition / Information on the ingredients

Chemical characterization: Preparation
Mixture of anionic and non-ionic surfactants in water solution.

Xi irritant

| Hazardous components | Concentration (C) | Classificazione |
|--|-------------------|-----------------|
| OLEATO DI POTASSIO | < 20% | |
| SAPONE DI POTASSIO IN SOL.ACQUO- SA | 5% - 8% | CAS 59892-75 |
| (R)-p-MENTA-1,8-DIENE CAS 59892-75 | 1% - 2% | |

3. Hazards identification

The preparation, if brought into contact with eyes, causing irritation relevant.
The preparation, if brought into contact with skin, can 'cause skin sensitisation.
The preparation is harmful ingestion

4. First aid measures

Skin contact: Rinse with plenty of water
Eye contact: Wash immediately with water for at least ten minutes, if
necessary seek an oculistic examination.
Swallowing: Seek a medical examination. Do not absolutely induce vomiting.
Don't give anything to an unconscious person.
Inhalation: The patient is to be removed immediately from the contaminated premises and made to rest in
well ventilated area. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Extinguishing media
Suitable: All extinguishing agents can be used.
Forbidden extinguisher: None. If there is a fire close by, use suitable extinguishing agents.

Specific hazards: Not combustible. Does not present any particular risk in the event of a fire.

6. Accident release measures.

Measures for personal safety: Avoid direct contact with the skin and the eyes.

Environmental measures: Limit leakages with earth or sand. Gather the product in suitable canisters waiting for disposal.
If the product has escaped into a water course, into the drainage system, notify the competent authorities.

Cleaning methods: Water wash; in presence of abundant foam use antifoam agents, absorb the product with suitable absorbents.

7. Handling and storage

Handling precautions: No specific advice

Storage conditions: No specific advice

Instructions as regards storage premises: Adequately fresh and ventilated premises, don't exceed 30°C

8. Exposure controls / personal protection

Concentration limits in the workplace: no data is available on the TLV

Precautionary Measures: usual for chemicals

Respiratory protection: unnecessary

Hand protection: Using gloves and stable against the product, substance, formulation

The selection of suitable gloves not only depends on the material but also from other

Quality characteristics vary from one producer to another. Since the product is a formulation of several substances, stability gloves material is not calculable in advance and must be tested before use.

Eye protection: Using goggles during transfer

9. Physical and chemical properties

| | |
|-----------------------------------|-----------------------------------|
| Colour | <i>Orange liquid</i> |
| Smell | characteristic |
| Physical state | liquid |
| Boiling point range | no data available |
| Solidification temperature range: | no data available |
| Flash point | > 100°C DIN 51755 |
| Ignition temperature | no data available |
| Auto-ignition temperature | not self-inflammable |
| Upper explosion limit | no data available |
| Lower explosion limit | no data available |
| Density at 20°C | 1,013 g/cm ³ DIN 51757 |
| Water solubility | soluble |
| Viscosity at 20°C | ca. 88 mPa.s DIN 51562 |
| pH value at 20°C | Almost alkaline |

Biodegradability: over 90% (art. n. 136 of 26/04/1986 art. 2 and 4)

10. Stability and reactivity

Conditions to avoid: Protect against chilliness and overheating
Substances to avoid: Strong oxidants
Hazardous decomposition products: None in suitable storage and handling conditions

11. Toxicological information

Notes - The TLV, as set of the ACHIH are recommendations and should be used as guidelines for good practice.

There are three categories of TLV namely:

TLV-TWA: weighted average concentration over time for a working day of 8 hours to 40 hours per week to which all workers can be exposed repeatedly without adverse effects.

TLV-STEL: concentration to which workers may be exposed for a short period of time without that arise irritation, chronic or irreversible tissue, narcosis.

Exposure STEL should not exceed 15 minutes and must not be repeated more than 4 times a day. Among exposure and the other must pass at least one hour.

TLV-C: (Ceiling) concentration that should never be exceeded even instantly.

No substance to report

12. Ecological information

Adopt sound working practices, so that the product is not released into the environment.

13. Disposal considerations

You can dispose of in accordance with the requirements and technical standards required by existing authorizations. Do not download never sewer or surface water or groundwater. Do not dispose of the product along with household waste.

14. Transport information

Road transport or rail:

NOT DANGEROUS

Maritime transport:

NOT DANGEROUS

Air transport:

NOT DANGEROUS

15. Regulatory information

GRADING THE SECOND EEC directives: In the handling of chemicals observe the usual precautionary measures. In accordance with the EC directives the product is subject to encoding:

IRRITANT

SPECIFIC CLASSIFICATION OF CERTAIN PREPARATIONS: safety data sheet available on request for professional users.

NATIONAL PROVISIONS:

SECOND Vbc CLASSIFICATION:

ARS (TEGEWA):

DANGEROUS CLASS OF 'WATER FOR THE CLASS 1 (WGK1): little dangerous

Contains:

| | |
|------------------------------------|---------|
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| SAPONE DI POTASSIO IN SOL.ACQUO-SA | 5% - 8% |
| (R)-p-MENTA-1,8-DIENE CAS 59892-75 | 1% - 2% |

*** EXPECTED SYMBOLS:

Xi - Irritant

***** NATURE OF RISKS:**

R36/R38 - Irritating to eyes and skin
R22 - Harmful if swallowed
R43 - can cause sensitization by skin contact

***** ADVICE OF CARE:**

S2 - Keep out of reach of children
S26 - In case of contact with the eyes wash immediately with plenty of water and seek Doctor
S36 - Using suitable protective clothing
S37 - Use gloves
S39 - Protect the eyes / face
S45 - In case of an accident or sick immediately consult a doctor - show the label

16. Other information

PRODUCT FOR ONLY PROFESSIONAL USE IN THE LAUNDRIES.

The information contained in this form of security is based on our current knowledge and are provided in accordance with Directive 91/155/EEC, as amended and supplemented. The product should not be used for purposes other than those specified in paragraph 1 without first obtaining written instructions. Do not assume responsibility for any misuse.

And responsibility of always comply with standards of hygiene, safety and environmental protection provided by law.

The information contained in this form are to be understood as the description of product characteristics for the purposes of security should not be considered as collateral properties of the product itself.

SOURCES:

NIOSH - Registry of toxic effects of chemical substances (1993)
CESIO - Classification and labelling of anionic, non-ionic surfactants (01/2000)
SAX'S Dangerous Properties of Industrial Materials (1993)
ACGIH "2001 TLV"
TLV "2000/39/EC"
ECDIN DB
KBws list