

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 19.11.2009

Revision: 19.11.2009

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *F1 CLEAN Graffiti-Entferner*
- **Application of the substance / the preparation** *Cleaning material/ Detergent*
- **Manufacturer/Supplier:**
Detlef Francé
F1 CLEAN EUROPA VERTRIEB
Mühlenstr. 11 e
84174 Eching
Tel.: 0049 8709/928352
Fax: 0049 8709/928353
Mobil: 0049 151/56910460
vertrieb@f1clean.info
www.f1clean.info
- **Further information obtainable from:** *vertrieb@f1clean.info*
- **Information in case of emergency:** *112*

2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information concerning particular hazards for human and environment:**
R 36/38 Irritating to eyes and skin.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

- **Dangerous components:**

| | | | |
|-------------------|------------------------|-------------|---------|
| CAS: 872-50-4 | N-methyl-2-pyrrolidone | Xi; R 36/38 | 50-100% |
| EINECS: 212-828-1 | | | |

4 First aid measures

- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** *If symptoms persist consult doctor.*

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** *Do not inhale explosion gases or combustion gases.*

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6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

872-50-4 N-methyl-2-pyrrolidone

| | |
|-----|--|
| WEL | Short-term value: 309 mg/m ³ , 75 ppm |
| | Long-term value: 103 mg/m ³ , 25 ppm |
| | Sk |

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Butyl rubber, BR
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Rubber gloves
- **As protection from splashes gloves made of the following materials are suitable:** PVC or PE gloves

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· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

| | |
|----------------|------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Amine-like |

· **Change in condition**

| | |
|-------------------------------------|-------|
| Melting point/Melting range: | -24°C |
| Boiling point/Boiling range: | 202°C |

· **Flash point:** 93°C· **Ignition temperature:** 270°C· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

| | |
|---------------|-----------|
| Lower: | 1.3 Vol % |
| Upper: | 9.5 Vol % |

· **Vapour pressure at 20°C:** 0.3 hPa· **Density at 20°C:** 1.026 g/cm³· **Solubility in / Miscibility with water:** Fully miscible.· **pH-value (100 g/l) at 20°C:** 12· **Viscosity:**· **Kinematic at 20°C:** 12 s (DIN 53211/4)

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

872-50-4 N-methyl-2-pyrrolidone

| | | |
|--------|------|---------------------|
| Oral | LD50 | 3914 mg/kg (rat) |
| Dermal | LD50 | 8000 mg/kg (rabbit) |

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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xi Irritant
- **Risk phrases:**
36/38 Irritating to eyes and skin.
- **Safety phrases:**
2 Keep out of the reach of children.
37/39 Wear suitable gloves and eyeface protection.
46 If swallowed, seek medical advice immediately and show this container or label.
59 Refer to manufacturer/supplier for information on recovery/recycling.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

36/38 Irritating to eyes and skin.

· * **Data compared to the previous version altered.**

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