

Material Safety Data Sheet
VEROLAN NFE

Rev No. : 01

01-04-2013

1. Identification of the substance/preparation and of the company/undertaking**Product details**

- Trade name : **VEROLAN NFE**
- Application of the substance / the preparation Textile Auxiliary Chemical
- Manufacturer/Supplier :
Rudolf Atul Chemicals Limited
Post : Atul, District : Valsad – 396 020
Gujarat, India
Telephone : (+912632) 230000
Email : racl@atul.co.in Website : www.atul.co.in

2. Composition/information on ingredients

- Chemical characterization :
- Description : Preparation of : Polyacrylate, Organic Salts
- Additional information : For the wording of the listed risk phrases refer to section 16.

3. Hazards identification**Hazard description :**

Xi Irritant

- Information concerning particular hazards for human and environment :
When sprayed the respiratory tracts may be irritated by aerosol drops.
R 36 Irritating to eyes.

4. First-aid measures

- Description of first aid measures :
- General information :
Immediately remove any clothing soiled by the product and dispose off safely.
By continuous complaints consult a physician.
- After inhalation : Supply fresh air; consult doctor in case of complaints.
- After skin contact : Immediately wash with water and soap and rinse thoroughly.
- After eye contact : Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing :
Seek medical treatment.
Rinse out mouth and then drink plenty of water.

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Do not induce vomiting.
Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

- **Suitable extinguishing agents :**
CO₂, Dry powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents :** Water with full jet
- **Special hazards arising from the substance or mixture :**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)+ Carbon dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment :** Wear self-contained respiratory protective device.
- **Additional information :**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

- **Person-related safety precautions :**
Keep people at a distance and stay on the windward side.
Refer to protective measures listed in sections 7 and 8.
- **Measures for environmental protection :** 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 :** Keep receptacles tightly sealed.
- **Information about fire - and explosion protection :** No special measures required.
- **Storage :**
- **Requirements to be met by storerooms and receptacles :** Use polyolefine receptacles.
- **Information about storage in one common storage facility :** Pay attention to official rules regarding storage.
- **Further information about storage conditions :** Protect from frost. Keep container tightly sealed.
- **Recommended storage temperature :** 5-30°C
- **Storage class :**
- **Storage stability :** Storage period up to 12 months at 65 % RH & 20°C in closed packed condition.



8. Exposure controls/personal protection

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

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- **Ingredients with limit values that require monitoring at the workplace :**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information :** The lists valid during the making were used as basis.
- **Exposure controls :**
- **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 :** Use suitable respiratory protective device only when aerosol or mist is formed.
- **Protection of hands :**
 Protective gloves
- **Eye protection :** Wear goggles / safety goggles
 Tightly Sealed Goggles
- **Body protection :** Protective work clothing

9. Physical and chemical properties

- **General Information**
- **Form** : Fluid
- **Colour** : Light Yellow
- **Odour** : Characteristic
- **Change in condition**
- **Melting point/Melting range** : ~ 0°C
- **Boiling point/Boiling range** : 100°C
- **Flash point** : 350°C
- **Ignition temperature** : 571°C
- **Self-igniting** : Product is not selfigniting
- **Danger of explosion** : Product does not present an explosion hazard
- **Vapour pressure at 20°C** : 23 hPa
- **Density at 20°C** : 1.21 g/cm³
- **Solubility in / Miscibility with water** : Fully miscible
- **pH-value at 20°C** : 7.5

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided :**
No decomposition if used according to specifications.
- **Materials to be avoided :**

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Reactions with strong oxidising agents.
metals

- **Dangerous reactions** : Reacts with various metals.
- **Dangerous decomposition products** : No dangerous decomposition products known.

11. Toxicological information

- **Acute toxicity** :
- **LD/LC50 values relevant for classification** :
Oral LD-50 > 4000 mg/kg (Rat)
- **Primary irritant effect** :
- **on the skin** : Due to the product composition slight irritations of the skin cannot be excluded.
- **on the eye** : Irritating effect.
- **Sensitization** : No sensitizing effects known.
- **Additional toxicological information** :
The product has not been tested. The information is derived from the properties of the individual components.
When sprayed in inadequately ventilated places, the aerosol drops may seriously irritate the respiratory tract! Therefore it is absolutely necessary to strictly observe the instructions of chapter (para) 8.

12. Ecological information

- **Information about elimination (persistence and degradability)** :
- **Method** OECD 302 B
- **Analysing method** DOC decrease
- **Degree of elimination** : 50-100 %
- **Ecotoxic effects** :
- **Aquatic toxicity** :
LC-50 > 1000 mg/l (Vertebrata)
- **Behaviour in sewage processing plants** :
EC-50 > 500 mg/l (activated sludge)
Elimination > 60 % (OECD 302 B)
- **Additional ecological information** :
- **COD-value** : 230 mg/g
- **BOD5-value** : < 10 mg/g
- **AOX-indication** :
Product does not contain any organic bound Halogens which could lead to AOX-values.
The product does not contain heavy metals in waste water relevant concentrations.
- **General notes** :
The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.

13. Disposal considerations

- **Recommendation** :

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Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

- **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) :** must be in accordance with National / State / Local regulations.
- **ADR/RID class : -**
- **Air transport ICAO-TI and IATA-DGR :**
- **ICAO/IATA Class : -**
- **Transport/Additional information :** Not dangerous according to the above specifications.

15. Regulatory information

- **Labeling :**
The product has been classified and marked in accordance with National / State regulations on Hazardous Materials.
- **Code letter and hazard designation of product :**
 Xi Irritant
- **Risk phrases :**
36 Irritating to eyes.
- **Safety phrases :**
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.

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.