

Material Safety Data Sheet
VEROLAN SEFE

Rev No. : 00

25-02-2016

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

- **Trade name : VEROLAN SEFE**
- **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 :** Alkyl phosphonate, Inorganic salts, Organic salts
- **Additional information :** For the wording of the listed risk phrases refer to section 16.

3. Hazards identification**Hazard description :**

C Corrosive

- **Information concerning particular hazards for human and environment :**
 - When sprayed the respiratory tracts may be irritated by aerosol drops.
 - R 35 Causes severe burns.
 - R 37 Irritating to respiratory system.

4. First-aid measures**General information :**

By continuous complaints consult a physician.
Immediately remove any clothing soiled by the product.
Personal protection for the First Aider.

- **After inhalation :** Supply fresh air; consult doctor in case of complaints.
- **After skin contact :** Seek medical treatment, Immediately rinse with water, Cover wound with a sterile dressing.
- **After eye contact :** Rinse opened eye for several minutes under running water. Then consult a doctor
- **After swallowing :**

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Drink plenty of water and provide fresh air. Call for a doctor immediately.
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 caused by the substance, its products of combustion or resulting gases :**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)+ Carbon dioxide (CO₂)
Sulphur oxides (SO_x)
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 :**
Wear protective equipment. Keep unprotected persons away.
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).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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.
Unsuitable material for receptacle: aluminium.

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Unsuitable material for receptacle: steel.

- **Information about storage in one common storage facility :** Store away from oxidizing agents.
- **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.
- **Ingredients with limit values that require monitoring at the workplace :**
WEL Short-term value: 2.5 mg/m³, 2 ppm
Long-term value: 2.5 mg/m³, 2 ppm
- **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 :**
Use suitable respiratory protective device only when aerosol or mist is formed.
- **Protection of hands :**



Protective gloves

- **Eye protection :** Wear goggles / safety goggles



Safety glasses

- **Body protection :** Protective work clothing

9. Physical and chemical properties

- **General Information**
- **Form** : Fluid Viscous
- **Colour** : Clear Yellow
- **Odour** : Characteristic
- **Change in condition**
- **Melting point/Melting range** : < 0°C
- **Boiling point/Boiling range** : 100°C
- **Flash point** : Not applicable.

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Wagle Industrial Estate, Thane (West) - 400 604, Maharashtra, India.

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· 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	: 1.31 g/cm ³
· Solubility in / Miscibility with water	: Fully miscible
· pH-value at 20°C	: 1.4

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided :**
No decomposition if used according to specifications.
- **Materials to be avoided :**
amines
Reactions with strong alkalis.
Reactions with strong oxidising agents.
metals
- **Dangerous reactions :**
Corrosive action on metals.
Reacts with alkali (lyes).
- **Dangerous decomposition products :** None, if handled according to order.

11. Toxicological information

- **Acute toxicity :**
- **LD/LC50 values relevant for classification :**
Oral LD-50 > 5000 mg/kg (Rat)
- **Primary irritant effect :**
- **on the skin :** Strong caustic effect on skin and mucous membranes.
- **on the eye :** Strong caustic effect.
- **Sensitization :** No sensitizing effects known.
- **Additional toxicological information :**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
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) :**

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- **Method OECD 302 B**
- **Analysing method DOC decrease**
- **Degree of elimination : 20-70 %**
- **Classification : Moderately eliminable from water**
- **Ecotoxic effects :**
- **Aquatic toxicity :**
LC-50 > 50 mg/l (Vertebrata)
- **Behaviour in sewage processing plants :**
EC-50 > 300 mg/l (activated sludge)
Elimination 20 - 70 % (OECD 302 B)
- **Additional ecological information :**
- **COD-value : 140 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 :**
Must not reach sewage water or drainage ditch undiluted or unneutralized.
The ecotoxic effect of the product has not been tested. The information on this was derived from products of similar structure or composition.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values.
A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13. Disposal considerations

- **Recommendation :**
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) :**



- **ADR/RID class : 8 (C3) Corrosive substances.**
- **Danger code (Kemler) : 80**

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- **UN-Number** : 3265
- **Packaging group** : II
- **Hazard label** : 8
- **Description of goods** : 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULPHURIC ACID, aminofunctional phosphonic acid)
- **Maritime transport IMDG** :



- **UN Number** : 3265
- **Label** : 8
- **Packaging group** : II
- **EMS Number** : F-A,S-B
- **Proper shipping name** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULPHURIC ACID, aminofunctional phosphonic acid)
- **Air transport ICAO-TI and IATA-DGR** :



- **ICAO/IATA Class** : 8
- **UN/ID Number** : 3265
- **Label** : 8
- **Packaging group** : II
- **Proper shipping name** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SULPHURIC ACID, aminofunctional phosphonic acid)

15. Regulatory information

- **Labeling** :
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with National / State regulations on Hazardous Materials.
- **Code letter and hazard designation of product** :



C Corrosive

- **Hazard-determining components of labeling** :
sulphuric acid
phosphonic acid
- **Risk phrases** :
35 Causes severe burns.
37 Irritating to respiratory system.
- **Safety phrases** :
20 When using do not eat or drink.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the

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manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

Special labeling of certain preparations :

Contains formaldehyde. May produce an allergic reaction.

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.