



VVF (India) Limited

## VVF (India) Limited

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### MATERIAL SAFETY DATA SHEET

Product Name : Non Ionic Emulsifying Wax (NF)	Version: 2.00	Date: June 1, 2013
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#### **1. CHEMICAL PRODUCT IDENTIFICATION**

1.1 Product Name	Non Ionic Emulsifying Wax (USP NF grade)
1.2 Common Chemical Name	Blend of Cetosteryl alcohol and Polysorbate 60
1.3 Product Code (Supplier)	Vegarol <sup>®</sup> EW 300

#### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

2.1 Chemical Name	Blend of Cetosteryl alcohol and Polysorbate 60
2.2 % Compound	100%

#### **3. HAZARD IDENTIFICATION**

3.1 Environmental Hazards	None Identified
3.2 Human Health Hazards, Effects and Symptoms:	Very mild toxicity. No harmful effect expected at ambient temperature and normal usage.

#### **4. FIRST AID MEASURES**

4.1 Ingestion	Consult a doctor immediately. Drink plenty of water. Do not induce vomiting. However, if the person is unconscious, do not provide any type of ingestion
4.2 Inhalation	Remove to fresh air immediately. In case of breathing difficulty try artificial respiration. Get medical attention as soon as possible
4.3 Skin Contact	Wash material off the skin with plenty of soap and water. If redness or itching persist seek medical attention
4.4 Eye Contact	Wash eyes with water for at least 15 minutes. If redness or itching persists, seek medical attention

#### **5. FIRE FIGHTING MEASURES**

5.1 Extinguishing Media	
a. Suitable	Carbon dioxide, dry chemical, water fog or foam
b. Not Suitable	Water may not be effective
c. Special Fire Fighting Procedures	Wear self-contained breathing apparatus and protective clothing to avoid direct contact with eyes and skin. In case of high temperature or fire, use a water jet to cool the tank containing the product
5.2 Unusual Fire or Explosion Hazards	None expected
5.3 Hazardous Thermal Decomposition	On decomposition, the product releases Carbon dioxide, carbon monoxide, hydrocarbons, soot, aldehydes and ketones.
5.4 Protection for Fire-Fighters	Self-contained breathing apparatus, protective clothing and face mask

**6. ACCIDENTAL RELEASE MEASURES**

6.1 Personal Precautions	No particular precautions. Observe all Standard Industry Measures
6.2 Environmental Precautions	In case of spillage, cover the spilt amount with sand or soil to absorb the product. Then, collect the sand or soil with the product absorbed into a suitable container and dispose. Prevent entry of product into drains and ground water
6.3 Clean Up Method	Cover the product with dry earth or sand so that it may be absorbed. Then, transfer into a container for disposal. Flush affected area with water

**7. HANDLING AND STORAGE**

7.1 Handling	Follow good hygiene and safety procedures. Avoid any direct contact with the product. Wash hands with soap and water after handling the product. Keep away from heat, strong acids and oxidising agents
7.2 Storage	Store in sealed containers in a cool and dry place away from source of heat

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 Respiratory System Protection	None required when adequate ventilation is available at ambient temperature. At high temperature use self-contained NIOSH/MSHA approved respirator
8.2 Skin and Body Protection	Uniform, apron and rubber boots
8.3 Hand Protection	Rubber gloves
8.4 Eye Protection	Safety goggles and face mask

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Physical State	Solid in flake form
9.2 Colour	Creamy White to Pale yellow
9.3 Odour	Typical fatty
9.4 Boiling Range	Not applicable
9.5 Melting Range	50-54 <sup>0</sup> C
9.6 Solubility in Water	Dispersible in hot water
9.7 Density, Gm/ml, at 70 <sup>0</sup> C	~0.825
9.8 Solubility in Oil and Solvents	NA
9.9 Vapour Density ( Air = 1)	NA
9.10 Vapour Pressure, mm of Hg	NA
9.11 Flash Point, <sup>0</sup> C	NA
9.12 pH	5.5-7.0 (3%, dispersion in water (w / v))

**10 STABILITY AND REACTIVITY**

10.1 Chemical Stability	Stable under normal operational conditions
10.2 Conditions to Avoid	Sources of heat, ignition and flames
10.3 Materials to Avoid	Strong acids and oxidising agents
10.4 Hazardous Polymerisation Products	None
10.5 Hazardous Decomposition Products	Carbon monoxide and carbon dioxide

**11. TOXICOLOGICAL INFORMATION**

11.1 Acute Toxicity	
11.2 Oral (LD50) (Rat)	> 5.0 g/Kg for main ingredient Cetostearyl alcohol
11.3 Dermal (LD50) (Rabbit)	Not available
11.4 Inhalation (LC50)	Not available
11.5 Skin Irritation	Not expected / nor observed irritation in human being for main ingredient Cetostearyl alcohol
11.6 Eye Irritation	Causes mild transient irritation. Mild irritation observed in rabbits at 500 mg dosage level of undiluted product for main ingredient Cetostearyl alcohol
11.7 Sensitisation	Not available
11.8 Chronic Toxicity	Not available
11.9 Carcinogenicity	Not available

**12. ECOLOGICAL INFORMATION**

12.1 Comment	This product is very easily biodegradable (90%) and does not cause difficulties in waste water treatment plants. Since it is insoluble in water and lighter than water, large amounts of contamination can be separated using standard oils and fats separators
12.2 Eco-Toxicity	Data not available

**13 DISPOSAL CONSIDERATIONS**

13.1 Methods of Disposal	Disposal methods to be in accordance with local, federal and state environmental regulations
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**14. TRANSPORT INFORMATION**

14.1 UN Number	
14.2 Land Road / Railway	
14.21 ADR/RID Class	Chemicals N. O. S. (non regulated)
14.22 ADR/RID Item Number	Chemicals N. O. S. (non regulated)
14.3 Inland Waterways	
14.31 ADN Class	Chemicals N. O. S. (non regulated)
14.4 Sea	
14.41 IMDG Class	Chemicals N. O. S. (non regulated)
14.42 IMDG Page Number	Chemicals N. O. S. (non regulated)
14.5 Air	
14.51 IATA-DGR Class	Chemicals N. O. S. (non regulated)
14.6 National Transport Regulations	Chemicals N. O. S. (non regulated)

**15. REGULATORY INFORMATION**

15.1 EEC Regulations	This product is not classified as dangerous according to the EEC directive
15.2 Others	According to available data, fatty alcohol is a main ingredient of this blend and it is not a dangerous. However, one should observe the usual precautionary measures for dealing with chemicals according to local, state and federal regulations and requirements

**16. OTHER INFORMATION**

16.1 Legend	N.A. =Not applicable; N.Av.= Not available
16.2 History	
a. Date of first issue	Version 1.00 on 25/09/2009
b. Date of last issue	Version 1.00 on 25/09/2009
c. Date of current issue	Version 2.00 on 01/06/2013
MSDS Authorised by	Dr. Kashinath Pandit

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