



VVF Limited
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MATERIAL SAFETY DATA SHEET

Product Name: Vegarol® 1898	Version: 1.02	Date: May 25, 2009
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1. CHEMICAL PRODUCT IDENTIFICATION	
1.1 Product Name	Vegarol® 1898
1.2 Common Chemical Name	Stearyl alcohol, 1-octadecanol, octadecyl alcohol
1.3 Product Code (Supplier)	Vegarol® 1898

2. COMPOSITION / INFORMATION ON INGREDIENTS	
2.1 Chemical Name	Pure stearyl alcohol, 1-octadecanol, octadecan-1-ol
2.2 % Compound	100
2.3 CAS Number	112-92-5
2.4 EINECS Number	204-017-6

3. HAZARD IDENTIFICATION	
3.1 Environmental Hazards	None Identified
3.2 Human Health Hazards, Effects, and Symptoms:	
a. Ingestion	May cause slight irritation to gastrointestinal tract
b. Inhalation	No harmful effect expected at ambient temperature. Mist or vapours could cause irritation to the pulmonary tract
c. Skin Contact	Causes slight irritation
d. Eye Contact	May cause mild transient irritation

4. FIRST AID MEASURES	
4.1 Ingestion	Consult a doctor immediately. Drink plenty of water. However, if the person is unconscious, do not provide any type of ingestion
4.2 Inhalation	Remove to fresh air immediately. In case of a difficulty with breathing, 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 persists, 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
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



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5. FIRE FIGHTING MEASURES	
5.2 Unusual Fire or Explosion Hazards	None
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 a face mask

6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal Precautions	Wear chemical safety goggles, respirators, rubber boots and protective clothing providing full body coverage
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 absorbed product into a suitable container and dispose. Prevent entry of product into drains and ground water
6.3 Clean Up Method	Collect the product using dry earth or sand and transfer it to a container for disposal. Wash 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
7.3 Suitable Packing Materials	Stainless steel ISO-tanks, HDPE laminated bags with liners or lacquer lined MS drums
7.4 Unsuitable Packing Material	Unlined MS drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Respiratory System Protection	No protection required when adequate ventilation is available at room temperature. In the presence of mist or vapours, use self-contained NIOSH/MSHA approved respirator
8.2 Skin and Body Protection	Uniform, apron and rubber boots. Take a shower if the product comes in contact with skin.
8.3 Hand Protection	Rubber gloves
8.4 Eye Protection	Safety goggles and a face mask. Keep a source of water ready, in case the product comes in contact with eyes

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Physical State	Solid at 30 ⁰ C
9.2 Colour	White
9.3 Odour	Practically no odour
9.4 Boiling Range	330-360
9.5 Melting Range	56 ⁰ C - 60 ⁰ C
9.6 Solubility Water	Insoluble in water



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9.7 Relative Density	0.805 to 0.815 at 65°C
9.7 Solubility Oil and Solvents	Not available
9.8 Vapour Density (Air = 1)	Not available
9.9 Vapour Pressure, mm of Hg	< 10 mm, at 22°C
9.10 Flash Point	Approximately 174°C, PMCC
9.11 Auto Ignition Temperature	250°C
9.12 Lower Explosion Limit	Lower 1 %
9.13 Upper Explosion Limit	Upper 8 %
9.14 Average Molecular Weight	267 - 280

10. STABILITY AND REACTIVITY

10.1 Chemical Stability	Stable under normal operational conditions
10.2 Conditions to Avoid	Sources of heat, ignition and flame
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:	
a. Oral (LD50) (Rat)	> 5000 mg/Kg
b. Dermal (LD50) (Rabbit)	Not available
c. Inhalation (LC50)	Not available
d. Skin Irritation	Mild skin irritation
e. Eye Irritation	Mild eye irritation

12. ECOLOGICAL INFORMATION

12.1 Comment	This product is very easily biodegradable (90%) and does not cause difficulties in waste water treatment plants. Being 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 should 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 ADNR 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)



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14.5 Air	
14.5.1 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 not a dangerous chemical. One should, however, observe the usual precautionary measures for dealing with chemicals according to local, state and federal regulations and requirements R phrases = None, S phrases = None

16. OTHER INFORMATION		
16.1 REACH Pre-Registration Number	05-2115237417-47-0000	
16.2 Legend	Not applicable, not available	
16.3 History:		
a. Date of First Issue	June 24, 2005	
b. Date of Last Issue	July 14, 2006	
c. Date of Current Issue	May 25, 2009	Version : 1.02
MSDS Prepared By	Dr. Kashinath Pandit	
MSDS Authorized By	Dr. Kashinath Pandit	

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