



**VVF Limited**

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### **MATERIAL SAFETY DATA SHEET**

Product Name : Vegarol<sup>®</sup> 2270; Vegarol<sup>®</sup> 2280; Vegarol 2290

Version: 1.04

Date: Aug 20, 2012

#### **1. CHEMICAL PRODUCT IDENTIFICATION**

1.1 Product Name	Vegarol <sup>®</sup> 2270, Vegarol <sup>®</sup> 2280, Vegarol <sup>®</sup> 2290
1.2 Common Chemical Name	1-Docosanol in blend with 1-Icosanol and 1-Octadecanol
1.3 Product Code (Supplier)	Vegarol <sup>®</sup> 2270, Vegarol <sup>®</sup> 2280; (Behenyl Alcohol)

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

2.1 Chemical Name	Behenyl Alcohol, blend of C18 to C22 alcohol; Blend of Octadecan-1-ol, icosan-1-ol and docosan-1-ol
2.2 % Compound	100
2.3 CAS Number	661-19-8; 629-96-9 & 112-92-5
2.4 EINECS Number	211-546-6; 211-119-4 & 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 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 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	CO <sub>2</sub> , dry chemical, water fog, or foam
b. Not Suitable	Water
c. Special Fire Fighting Procedures	Wear self-contained breathing apparatus and



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<b><u>5. FIRE FIGHTING MEASURES</u></b>	
	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
5.3 Hazardous Thermal Decomposition	On decomposition, the product releases CO <sub>2</sub> , CO, hydrocarbons, soot, aldehydes and ketones
5.4 Protection for Fire-Fighters	Self-contained breathing apparatus, protective clothing and a face mask

  

<b><u>6. ACCIDENTAL RELEASE MEASURES</u></b>	
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

  

<b><u>7. HANDLING AND STORAGE</u></b>	
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 for pastilles
7.4 Unsuitable Packing Material	Unlined MS drums

  

<b><u>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</u></b>	
8.1 Respiratory System Protection	No protection required when adequate ventilation is available at room temperature. In presence of mist or vapour 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

  

<b><u>9. PHYSICAL AND CHEMICAL PROPERTIES</u></b>	
9.1 Physical State	Solid at 30 <sup>0</sup> C
9.2 Colour	White
9.3 Odour	Practically no odour
9.4 Boiling Range	360-400 <sup>0</sup> C



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<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
9.5 Melting Range	61-68 <sup>0</sup> C
9.6 Solubility Water	Insoluble in water
9.7 Relative Density	0.80 to 0.81 at 65 <sup>0</sup> 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 <sup>0</sup> C
9.10 Flash Point	Approximately 204 <sup>0</sup> C
9.11. Average Molecular Weight	303-325

<b>10. STABILITY AND REACTIVITY</b>	
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

<b>11. TOXICOLOGICAL INFORMATION</b>	
11.1 Acute Toxicity	
a. Oral (LD50) (Rat)	> 2000 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

<b>12. ECOLOGICAL INFORMATION</b>	
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

<b>13. DISPOSAL CONSIDERATIONS</b>	
13.1 Methods of Disposal	Disposal methods to be in accordance with local, federal and state environmental regulations

<b>14. TRANSPORT INFORMATION</b>	
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)



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<b>14. TRANSPORT INFORMATION</b>	
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)

<b>15. REGULATORY INFORMATION</b>	
15.1 EEC Regulations	This product is not classified as dangerous according to 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

<b>16. OTHER INFORMATION</b>		
16.1 REACH pre-registration no :	05-2115237417-47-0000	
	05-2115237569-36-0000	
	05-2115237792-43-0000	
16.2 Legend	N.A. =Not applicable; N.Av.= Not available	
16.3 History		
a. Date of first issue	June 24, 2005	
b. Date of last issue	Jan 25, 2010	
c. Date of current issue	Aug 20, 2012	Version : 1.04
MSDS Authorised By	Dr. Kashinath Pandit	

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