VVF (India) Limited

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MATERIAL SAFETY DATA SHEET

Product Name	**VEGAROL® 1218**	
Version	2.00	Date : September 25th, 2012

1. CHEMICAL PRODUCT IDENTIFICATION	
1.1 Product Name	VEGAROL® 1218
1.2 Common Chemical Name	Blend of lauryl myristyl alcohol, cetyl alcohol, stearyl alcohol, Blend of N-dodecanol, tetra decanol ,1-hexa decanol, & 1-octadecanol; Fatty Alcohol C12-18
1.3 Product code (Supplier)	VEGAROL® 1218

2. COMPOSITION / INFORMATION ON INGREDIENTS	
Chemical Name:	Blend of 1-dodecanol (Lauryl Alcohol), 1-Tetrea decanol (Myristyl Alcohol), 1-Hexadecanol (Cetyl Alcohol) &1-Octadecanol (Stearyl alcohol).
% Compound	100
CAS Number	67762-25-8
EINECS Number	267-006-5

3. HAZARD IDENTIFICATION	
3.1 Environmental Hazards	None Identified
3.2 Human Health Hazards Effect & symptoms:	
3.3 Ingestion	May cause slight irritation to gastrointestinal tract
3.4 Inhalation	No harmful effect expected at ambient temperature. Mist/vapours could be irritant to pulmonary tract.
3.5 Skin Contact	Slight irritant.
3.6 Eye Contact	Mild transient irritant.

4. FIRST AID MEASURES	
4.1 Ingestion	Consult a doctor immediately. Drink plenty of water. Do not give anything to unconscious person.
4.2 Inhalation	Remove to fresh air immediately. In case of breathing difficulty try artificial respiration. Get medical attention at earliest.
4.3 Skin Contact	Wash material off the skin with copious amounts 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 persist seek medical attention

5. FIRE FIGHTING MEASURES	
5.1 Extinguishing Media	
a. Suitable	Carbon dioxide, dry chemical, water fog, foam Carbon dioxide or foam
b. Not Suitable	Water

5. FIRE FIGHTING MEASURES	
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 /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 of Fire-fighters	Self contained breathing apparatus and protective clothing face mask and rubber boots.

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 Method of cleaning up	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.
7.3 Suitable Packing Materials	HDPE carbuoys, stainless steel tanks, Zink coated tanks or lacquer lined MS drums
7.4 Not suitable 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 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, face mask

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Physical state	Liquid above 30^0C
9.2 Colour	Colourless
9.3 Odour	Characteristic fatty alcohol odour
9.4 Boiling range,	255 to 340, ^{0}C

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.5 Melting Range,	18 to 28 ^{o}C
9.6 Solubility water	Insoluble in water
9.7 Density, Gm/ml	0.820 to 0.830 at 40 ^{0}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 ^{o}C
9.10 Flash point,	Approx 137 ^{o}C,PMCC
9.11 Auto ignition temperature,	Not available
9.12 Lower explosion limit,	Not available
9.13 Upper explosion limit,	Not available
9.14. Average molecular weight	200-215
9.15. Viscosity	~ 10 mPa.s at 38 ^{0}C

10 STABILITY AND REACTIVITY	
10.1 Chemical stability	Stable under normal operational condition
10.2 Conditions to avoid	Sources of heat, ignition & flame.
10.3 Materials to avoid	Strong acids and oxidising agents
10.4 Hazardous polymerisation products	None
10.5Hazardous Decomposition Products	Carbon monoxide & Carbon dioxide

11. TOXICOLOGICAL INFORMATION	
11.1 Acute Toxicity	
11.1.1 Oral (LD50) (Rat)	> 20.5 g/Kg
11.1.2 Dermal (LD50) (Rabbit)	Not available
11.1.3 Inhalation (LC50)	Not available
11.2 Skin irritation	No irritation in human being observed in repeated insult test done using undiluted product.
11.3 Eye irritation	Mild transient irritation. Mild irritation observed in rabbits at 500 mg dosage level of undiluted product
11.4 Sensitisation	Not available
11.5 Chronic Toxicity	Not available
11.6 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

14.TRANSPORT INFORMATION	
14.1 Land Road / Railway	
14.11 ADR/RID class	Chemicals N. O. S. (non regulated)

14.12 ADR/RID item Number	Chemicals N. O. S. (non regulated)
14.2 Inland waterways	
14.21 ADNR class	Chemicals N. O. S. (non regulated
14.3 Sea	
14.31 IMDG class	Chemicals N. O. S. (non regulated)
14.32 IMDG Page Number	Chemicals N. O. S. (non regulated)
14.4 Air	
14.41 IATA-DGR class	Chemicals N. O. S. (non regulated)
14.5 National Transport Regulations	Chemicals N. O. S. (non regulated)

15. REGULATORY INFORMATION	
15.1 EC - 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. How ever one should observe the usual precautionary measures for dealing with chemicals according to local, state and federal regulation & requirements.

16. OTHER INFORMATION		
16.1 REACH pre-registration no	-	
16.2Legend	N. A. = Not applicable; N.Av. = Not available	
16.3 History		
a. Date of first issue	July 20th, 2004	
b. Date of last issue	September 25th 2010	
c. Date of current issue	September 25th 2012	Version : 2.00
MSDS Authorised By	Dr. Kashinath Pandit	

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