VVF (India) Limited

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SAFETY DATA SHEET

Product Name: Vegarol® 1695; Vegarol® 1698; Vegarol	ol® 1699;
Version: 2.01	Date: Jan 1, 2015

1. CHEMICAL PRODUCT II	DENTIFICATION
1.1 Product Name	Vegarol® 1695; Vegarol® 1698; Vegarol® 1699;
1.2 Common Chemical Name	Cetyl Alcohol / 1-Hexadecanol
1.3 Product Code (Supplier)	Vegarol [®] 1695; Vegarol [®] 1698; Vegarol [®] 1699;
1.4 Application of the substance /	Agriculture, forestry, fishery,
the preparation usages:	Mining, (without offshore industries)
	Manufacture of pulp, paper and paper products.
	Manufacture of bulk, large scale chemicals (including petroleum
	products).
	Manufacture of fine chemicals.
	Manufacture of rubber, coating, paints, lubricants, greases & release agents.
	Manufacture of plastics products, including compounding and conversion.
	Manufacture of other non-metallic mineral products, e.g. plasters, cement.
	Preparation of pharmaceuticals, Cosmetics and personal care
	products.
1.5 Manufacturer/Supplier	VVF (India) Limited, 109, Sion (E) MUMBAI – 400022
1.6 Emergency contact details	+ 91-22-9619551607

2. HAZARD IDENTIFICATION			
2.1Hazard pictograms	Not applicable.		
2.2 Signal word	Not applicable.		
2.3 Hazard statements	Not applicable.		
2.4 Precautionary statements	Not applicable.		
2.5 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		
2.6 Other Hazard	Generally not hazardous for water.		
Results of PBT	This product is not PBT or vPvB.		

3.1 Chemical Nam	e	C	etyl alcohol; Hex	adecan-1-ol	
Name	CAS No.	EINECS No		% by Weight	
			V1695	V1698	V1699
N-dodecanol	112-53-8	203-982-0	1 Max	0.5 Max	
Tetradecanol	112-72-1	204-000-3	3 Max	1 Max	
Hexadecan-1-ol	36653-82-4	253-149-0	95 Min	98 Min	99 Min
Octadecanol	112-92-5	204-017-6	3.0 Max	1 Max	



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	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
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 chemicals safety goggles, respirators, rubber boots and protective clothing covering the entire body.	
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	Mop up and collect in dry container for disposal. Flush area with water. Use non sparking tools	

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. For pastille form, craft
	paper bags with liners or poly bags
7.4 Unsuitable Packing Material	Unlined MS drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1 OSHA permissible exposure limit (PELs)	Not Listed	
8.2 ACGIH threshold limit value (TLVs)	Not Listed	
8.3 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	
8.4 Skin and Body Protection	Safety shower, uniform, apron and rubber boots. Take	
	shower if the product comes in contact with skin.	
8.5 Hand Protection	Rubber gloves	



8.6 Eye Protection	Safety goggles and face mask. Keep source of water like eye
	shower to wash eyes, in case the product comes in contact
	with it.

9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1 Physical State	Liquid above 60° C	
9.2 Colour	Colourless	
9.3 Odour	Practically no odour	
9.4 Boiling Range	305 -330	
9.5 Melting Range	$46^{\circ}\text{C} - 50^{\circ}\text{C}$	
9.6 Solubility Water	Insoluble in water	
9.7 Relative Density	$0.815 \text{ at } 60^{\circ}\text{C}$	
9.8 Solubility Oil and Solvents	Not available	
9.9 Vapour Density (Air = 1)	Not available	
9.10 Vapour Pressure, mm of Hg	< 10 mm, at 22 ^o C	
9.11 Flash Point	Approx. 180°C, PMCC	
9.12 Auto Ignition Temperature	Not available	
9.13 Lower Explosion Limit	Not available	
9.14 Upper Explosion Limit	Not available	
9.15. Average Molecular Weight	238 -249	

10 STABILITY AND REACTIVITY	
10.1 Reactivity	Data not available
10.2 Chemical Stability	Stable under normal operational conditions
10.3 Conditions to Avoid	Sources of heat, ignition and flame
10.4 Materials to Avoid	Strong acids and oxidising agents
10.5 Hazardous Polymerisation Products	None
10.6 Hazardous Decomposition Products	Carbon monoxide and Carbon dioxide

11. TOXICOLOGICAL INFORMATION

1.1 Acute Toxicity	1.	1	Acute	Toxicity
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Name	CAS No.	LD 50(Oral)	LD 50(Dermal)	LC 50 (Oral) rat
1-Hexadecanol	36653-82-4	> 2000 mg/ kg (rat) > 5000 mg/ kg (rat)	> 2000 mg / Kg (rabbit) (Read across 1- Tetradecanol: 112-72-1)	

11.2 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Toxicity for reproduction:

Name	CAS No	Carcinogenicity	Mutagenicity	Toxicity for reproduction	
1-Hexadecanol	36653-82-4	Not a carcinogen	Not a mutagen	No adverse reproductive effects.	
11.3 Skin Irritation No irritation in human being observed through repeated insult test done using undiluproduct.					

	Slightly irritating in Rabbit (Draiz test, 24 hours exposure)
11.4 Eye Irritation	Slightly irritation is observed in rabbits.
11.5 Sensitisation	Not sensitised (Guinea pig maximisation test)



12. ECOLOGICAL INFORMATION							
12.1 Comment	wat	This product is very easily biodegradable (90%) and does not cause difficulties in waste water treatments plants. Being water insoluble and lighter than water, large amounts of contamination can be separated using typical standard oil / fats separators					
12.2 Biodegrad	lation:						
Name	Name CAS .NO Method Result						
Hexadecan-1-	-ol 36	36653-82-4 301B % degradation : 62% after 28 days at 17.1mg/l ; 10 day window : <60%					
The data suggest that long-chain alcohols in C6-24 category are non-bio accumulative. Bio concentration factor (BCF) = 56 [Golden orfe fish (Leuciscus idus melanotus)], BCF <2000 L/kg, hence Not Bioaccumulative. 12.4 Ecotoxical effects:							
12.1 Declaration offices.							
Name	CAS No.	EC 50 (Alga mg/l2)	ae NOEI	L(Biomass)	NOEL(Growt h)	EbL50 (96 hr)	LC 50 (96 Hr)
1- Hexadecanol	36653- 82-4	Effects seen >LOS (Alga	(,	>LoS)	>680(n,LoS)	680(n,>LoS)	>0.4 mg/L (n)(>LoS)

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 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.				



16. OTHER INFORMATION						
16.1 REACH Registration no :	01-2119485905-24-0013					
16.2 History						
a. Date of first issue July 20, 2004						
b. Date of last issue	Sept 25, 2012					
c. Date of current issue Jan 1, 2015 Version : 2.01						
SDS Authorised By	Mr. C. R. Marathe					

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