CHEMSYNTH CORPORATION

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MATERIAL SAFETY DATA SHEET

Product Name :
(BEHENYL ALCOHOL)

1. CHEMICAL PRODUCT IDENTIFICATION
1.1 Product Name Behenyl alcohol
1.2 Common Chemical Name Mixture of 1-octadecanol, 1-docosanol and 1-ecosanol, fatty alcohol mixture of C18 to C22 alcohol
1.3 Product Code (Supplier) (Behenyl Alcohol)

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Chemical Name Fatty alcohol mixture 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**	**112–92–5; 629-96-9 & 661-19-8**
2.4	**EINECS Number**	**204–017–6, 211-119-4 & 211-546-6**

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 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. 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 chemicals safety goggles, respirators, rubber boots and full 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 Collect in dry earth, sand. Transfer to 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 for pastiles
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 presence of mist or vapour use self-contained NIOSH/MSHA approved respirator
8.2 Skin and Body Protection Safety shower, uniform, apron and rubber boots. Take shower if the product come in contact with skin.
8.3 Hand Protection Rubber gloves
8.4 Eye Protection Safety goggles and face mask. Keep eye wash fountain Ready

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical State Solid at 300C
9.2 Colour White
9.3 Odour Practically no odour
9.4 Boiling Range 340-390
9.5 Melting Range 560C - 600C
9.6 Flash point 175 deg c

9. PHYSICAL AND CHEMICAL PROPERTIES
9.6 Solubility Water Insoluble in water
9.7 Relative Density 0.80 to 0.81 at 650C
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 220C
9.11 Flash Point Approximately 2040C
9.12. Average Molecular Weight 295-310

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 di oxide

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

12.1 Comment 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 Eco-Toxicity Fatty alcohols are not expected to show any detectable aquatic toxicity even in saturated solutions because of its extremely low water solubility. Aquatic toxicity data is reported by analogy from Octadecanol (CAS112-92-5)
Details Species Exposure Results
a. Acute / Prolonged
Toxicity to Fish
Brachydanio rerio, (fresh water fish)
96 hours LC 0 : 10000 mg/l
LC50 : > 10000 mg/l
b. Acute Toxicity to
Aquatic Invertebrates

Daphnia magna (Crustacea,) 48 hours EC0 : 980 mg/l
EC50 : 1666 mg/l
EC100:2940 mg/l
c. Toxicity to Micro organism. MIC (Min. Inhibitory Conc.)
1. Pseudomonas Putida
2. Clostridium Botulinum
3. Pseudomonas Aeruginosa *
4. Staphylococcus Aureus *
- 1. EC0 9950 mg/l
2. MIC 0.6 mg/l
3. MIC 8 mg/l
4. MIC 10 ppm
*** Internally generated data on Vegarol®1822**

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
R phrases = None, S phrases = None

16. OTHER INFORMATION

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