

<b>ISSUE NO.: 01</b>	<b>REVISION NO.: 06</b>
<b>ISSUE DATE: 01/07/2001</b>	<b>EFFECTIVE DATE: 01/11/2014</b>
<b>STATUS: CONTROLLED</b>	<b>NEXT REVIEW ON: THREE YEARS</b>

## MATERIAL SAFETY DATA SHEET

(In Accordance with EC-Legislation 91/155/EEC)

**Product Name : AMARANTH**

**Company : ROHA DYECHEM PVT.LTD. Language: UK NL DE FR**  
**42,MIDC,Roha Audyogik Vasahat,**  
**ROHA – 402 116,INDIA.**  
**Tele: No. +91-2194 – 263656,263122,263609**  
**Fax No. +91-2194 - 263630**

### 1.CHEMICAL PRODUCT IDENTIFICATION

**Product Code (Supplier) : D03**  
**INCI No. : 16185**  
**Synonymous Name : C.I.Food Red 9, Bordeaux - S**  
**Chemical Name : Trisodium 2-Hydroxy-1-(4-Sulfonato-1-Naphthylazo)**  
**Naphthalene-3,6-Disulfonate**  
**Chemical Formula : C<sub>20</sub>H<sub>11</sub>N<sub>2</sub>Na<sub>3</sub>O<sub>10</sub>S<sub>3</sub>**  
**Chemical Class : Monoazo**

### 2.COMPOSITION / INFORMATION ON INGREDIENTS

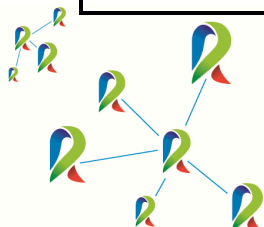
#### Information on hazardous Ingredients

Ingredients Name:	% compound	EINECS No.	CAS No.	EC No.
Amaranth	100	213-022-2	915-67-3	E-123

(None of the ingredient of this material meet the definition of hazardous chemical 29 CFR1910.1200)

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Q.A. Chemist	Q.A. Manager

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### 3. HAZARD IDENTIFICATION

(Non – Hazardous according to the criteria of EEC directive of 67/548/EEC or 88/379/EEC)

- 3.1 Environmental Hazards : N/A  
 3.2 Human Health Hazards : N/A  
 3.3 GHS Classification : Not Classified

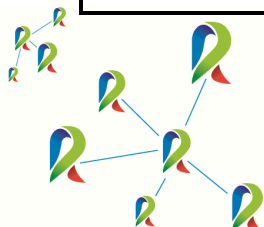
### 4. FIRST AID MEASURES

#### Effects and Symptoms

- 4.1. Ingestion : None  
 4.2. Inhalation : slight suffocation  
 4.3. Skin Contact : Temporary stain on the skin  
 4.4. Eye Contact : None  
 4.5 Ingestion : Drink plenty of water. Special medical attention may not be necessary.  
 4.6 Inhalation : Remove to fresh air. This product is not classified as an irritant ,however being dry powder dust may cause irritation in some individuals. If irritation develops, seek medical attention.  
 4.7 Skin Contact : No adverse effects. Wash skin with mild soap and water to remove nuisance of color. Some dyes may temporarily stain skin. If irritation develops, seek medical attention.  
 4.8 Eye Contact : This product is not classified as an irritant. If exposed, wash the eyes with large amounts of water, occasionally lifting the lower and upper lids, continue for 15 minutes. If Irritation develops, seek medical attention.

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## 5. FIRE FIGHTING MEASURES

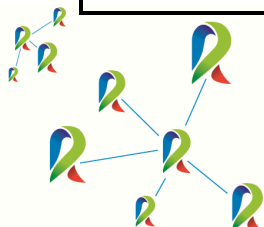
### Extinguishing Media

- 5.1 Suitable** : Carbon dioxide , chemical foam, or dry chemical Extinguisher.
- 5.2 Not Suitable** : Water
- 5.3 Special Firefighting Procedures:** Self content breathing apparatus (scba) and Full Protective equipment recommended
- 5.4 Unusual Fire/Explosion Hazards:** Fire or excessive heat produce carbon di oxide ,carbon mono oxide and un identified organic compounds may be formed.
- 5.5 Hazardous Thermal (de) composition Products:** None.
- 5.6 Protection of Firefighters** : wear PPE as recommended. Does not support combustion.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions** : No respiratory protection required, but dust masks are suggested.
- 6.2. Environmental Precautions** : This product can generate dust. Ventilation or dust collection would be helpful, but not necessary.
- 6.3. Methods of Cleaning up Small Spill** :  
: For dry powder spills ,inter material such as sand may be added to control dusting prior to clean up . industrial grade vacuum sweeper are also recommended. Placed spilled material into appropriate designated waste container for disposal .

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- Large Spill** : Contain spilled material immediately with inert substance such as sand or earth . use plastics or aluminum shovel to transfer diluted waster material into appropriate waster container for disposal.
- wet spill** : If wet, surfaces exposed to a spill may become slippery or sticky. Spills should be thoroughly flushed with Soapy water until all apparent color is removed.

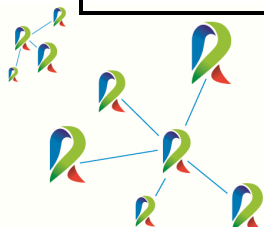
## 7. HANDLING AND STORAGE

- 7.1.Handling** : Use protective hand gloves, dust mask while removing the colour for use, using clean dry spoon. Avoid formation of dust
- 7.2.Storage** : Keep in closed container at ambient temp. & Humidity
- 7.3.Suitable packaging materials** : Store in a tightly sealed container.
- 7.4.Not suitable packaging materials:** None

## 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

- a. TLV / STEL (USA)** : No Data Available
- b. MAK (Germany)** : No Data Available
- 8.1.Respiratory System Protection** : Not required, but dust masks are suggested.
- 8.2. Skin and Body Protection** : No adverse effects. Wash skin with mild soap and water to remove nuisance of color. Some dyes may temporarily stain skin.
- 8.3. Hand Protection** : Rubber gloves may be used. Wash hands before and at the end of work with water and soap.
- 8.4. Eye Protection** : Protective Glasses may be used.

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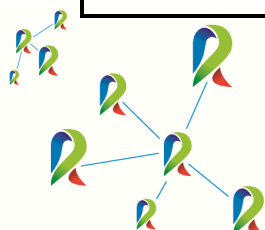
## 9. PHYSICAL AND CHEMICAL PROPERTIES

1. Physical State	: Solid, Fine powder
2. Colour	: REDDISH BROWN
3. Odour	: Odourless
4. Boiling Point	: Not Applicable
5. Melting Point	: Not Applicable
6. pH	: 5 – 9
Solubility:	
7. Water	: 140 gms/Litre
8. Oil & Solvents	: Non-soluble, Not Applicable
9. Vapor Density (Air=1)	: Not Applicable
Bulk Density	: 0.5 – 1.1
10. Flash Point	: Not Applicable
11. Autoignition Temperature	: Not Applicable
12. Lower Explosion Limit	: Not Applicable
13. Upper Explosion Limit	: Not Applicable
14. Viscosity ( mpa.sec.)	: Not Applicable

## 10. STABILITY AND REACTIVITY

10.1. Conditions to avoid	: None, Avoid contamination of moisture. Excess exposure to atmosphere, strong reducing agents, strong acids/alkalies
10.2. Materials to avoid	: None, Avoid contamination of moisture. Excess \ exposure to atmosphere, strong reducing agents, strong acids/alkalies
10.3 Hazardous Decomposition Products:	None, Avoid contamination of moisture. Excess exposure to atmosphere, strong reducing agents, strong acids/alkalies

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

- a. Rat (i.p.) : > 1 gm/kg Body weight  
           (i.v.) : > 1 gm/kg Body weight  
       Mouse : (oral) : > 10 gm/kg Body weight  
               (c.p.) : > 0.5 gm/kg Body weight  
 b. Dermal (LD50) : Not irritating to skin  
 c. Inhalation (LC50) : Not expected to be an inhalation hazard.  
 11.1. Skin Irritation : Not expected  
 11.2. Eye Irritation : Not expected.  
 11.3. Sensation : Not Applicable  
 11.4. Chronic Toxicity : No adverse effects expected.  
 11.5. Carcinogenicity : Not Applicable

### Acceptable Daily Intake (ADI)

- Jecfa : 0-0.5 mg Body weight.  
 EEC : 0-0.8 mg Body weight.  
 USA : Not permitted.

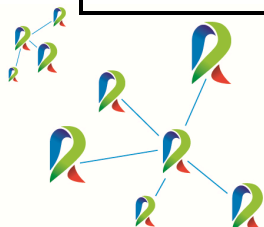
## 12. ECOLOGICAL INFORMATION

1. Comment : Being an edible Dye in the proportion suggested however  
 Adverse ecological hazards . Not established.  
 2. Eco toxicity : Not Applicable

## 13. DISPOSAL CONSIDERATIONS

1. Methods of Disposal : Can be disposed to an incineration plant in accordance with  
 local regulations.

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#### 14. TRANSPORT INFORMATION

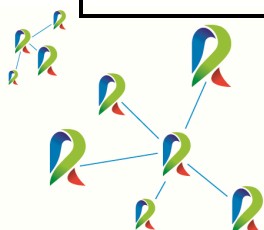
1. UN Number : N/A
2. Land-Road/Railway
3. ADR/RID Class : N/A
4. ADR/RID Item Number : N/A
5. Inland Waterways
6. ADN R Class : N/A
7. Sea
8. IMDG Class : N/A
9. IMDG Page No. : N/A
10. Air
11. IATA-DGR Class : N/A
12. National Transport Regulations: N/A
13. Comments :

#### 15. REGULATORY INFORMATION

1. EC Regulations : Permitted food colour as per rules & regulations.
2. EC classification : Classified as E123
3. Label Name : AMARANTH
4. Hazard Symbols : Not Applicable, It is a permitted food colour & non hazardous, it used as per regulations.
5. Risk Phrases : Not Applicable.
6. Safety Phrases : S 22.

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## 16. OTHER INFORMATION

**THIS PRODUCT SHOULD BE STORED, HANDLED AND USED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGEINIC PRACTICES AND IN CONFORMITY WITH ANY LEGAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE AND IS INTENDED TO DESCRIBE OUR PRODUCTS FROM THE POINT OF VIEW OF HEALTH AND SAFETY REQUIREMENTS. IT SHOULD NOT THEREFORE BE CONSTRUED AS GUARANTEEING SPECIFIC PROPERTIES.**

**The statements made here are supposed to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics and are made to the best of our current knowledge.**

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