

69261-1001
-1009

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLAY

Issued: 28/7/03

Page: 1-4

1. IDENTIFICATION OF SUBSTANCE OR PREPARATION

1.1 PRODUCT IDENTIFICATION

PRODUCT NAME: CLAYCHEMICAL NAME: SILICON DIOXIDE MIXTURECHEMICAL IDENTIFICATION: SILICON DIOXIDE MIXTURE

1.2 COMPANY DETAILS

NAME : CANGLONG CLAY MANUFACTORY CO. LTD.ADDRESS : FENG TANG INDUSTRIAL ESTATE, CHAO AN ZHEN, CHAO YAN CITY, GUANG DONG CHINATEL.: 0768-6883508 FAX: 0768-6883789

1.3 EMERGENCY TELEPHONE

NAME : CANGLONG CLAY MANUFACTORY CO. LTD.ADDRESS : FENG TANG INDUSTRIAL ESTATE, CHAO AN ZHEN, CHAO YAN CITY, GUANG DONG CHINATEL.: 0768-6883508 FAX: 0768-6883789

2. INGREDIENTS

<u>COMPOSITION</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS INGREDIENTS</u>
SiO ₂	60%	None
Al ₂ O ₃	17%	None
H ₂ O	23%	None

3. HEALTH HAZARD DATA

3.1 HEALTH EFFECTS SUMMARY:

3.1.1 EFFECTS OF OVEREXPOSURE

INGESTION : UNDER NORMAL CONDITIONS OF USE, NO ADVERSE EFFECTS ARE EXPECTEDINHALATION : UNDER NORMAL CONDITIONS OF USE, NO ADVERSE EFFECTS ARE

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLAY

Issued: 28/7/03

EXPECTED

SKIN CONTACT : UNDER NORMAL CONDITIONS OF USE, NO ADVERSE EFFECTS ARE EXPECTED

EYE CONTACT : UNDER NORMAL CONDITIONS OF USE, NO ADVERSE EFFECTS ARE EXPECTED. BUT, DIRECTED / REPEATED CONTACT OF CONCENTRATED PRODUCT WILL CAUSE TRANSIENT IRRITATION.

3.1.2 OTHERS EFFECT FROM OVEREXPOSURE: NO SIGNIFICANT EFFECT REPORTED

Page: 2-4

4. FIRST AID PROCEDURES

- 4.1 INGESTION : CONSULT DOCTOR IF ANY SYMPTOMS APPEAR OR YOU FEEL UNWELL...
- 4.2 INHALATION : REMOVE TO FRESH AIR
- 4.3 SKIN CONTACT : WASH WITH SOAP AND WATER
- 4.4 EYE CONTACT : IMMEDIATELY GENTLY FLUSH EYE WITH WATER

5. FIRE AND EXPLOSION HAZARD DATA

- 5.1 FLASH POINT : NOT APPLICABLE
- 5.2 FLAMMABLE LIMITS : NOT APPLICABLE
- 5.3 EXTINGUISHING MEDIA : WATER MIST, FOAM, DRY CHEMICAL, CO2
- 5.4 FIRE FIGHTING PRECAUTIONS : WEAR IMPERVIOUS CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
- 5.5 UNUSUAL HAZARDS : MATERIAL CAN BURN WHEN TEMPERATURE OVER 500°C. MAY FORM FLAMMABLE OR EXPLOSIVE DUST CLOUDS IN AIR

6. SPILLAGE AND LEAKAGE PROCEDURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:
CONTAIN SPILLAGE AND TRANSFER TO A SEALABLE CONTAINER. RESIDUE MAY BE WASHED AND WILL DISSOLVE IN WATER.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLAY

Issued: 28/7/03

7. STORAGE AND HANDLING

- 7.1 HANDLING: NO SPECIAL PRECAUTIONS.
- 7.2 STORAGE: TO PREVENT THE MATERIAL BECOMES HARDEN OR CRACKED; KEEP STORE IN SEALED POLYBAG UNDER COOL, DRY CONDITIONS AWAY FROM SOURCES OF HEAT.

8. OCCUPATIONAL CONTROL PROCEDURES

- 8.1 PERSONAL HYGIENE: WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR DRINKING, REMOVE / LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.
- 8.2 RESPIRATORY PROTECTION : NOT APPLICABLE
- SKIN PROTECTION : NOT APPLICABLE
- EYE PROTECTION : NOT APPLICABLE

Page: 3-4

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT STATE: SOFT CLAY COLOR: WHITE / RED / GREY ODOR: SLIGHTLY ODOR

FLASH POINT: NOT APPLICABLE (WATER SOLUBLE SYSTEM)

EXPLOSION LIMIT (%) UPPER : NOT APPLICABLE (WATER SOLUBLE SYSTEM)

LOWER : NOT APPLICABLE (WATER SOLUBLE SYSTEM)

SOLUBILITY IN WATER : SOLUBLE

PERCENT VOLATILE : ~51% (WATER)

MELTING POINT : NOT APPLICABLE

FREEZING POINT : -0°C

10. REACTIVITY DATA

- 10.1 STABILITY : STABLE
- CONDITIONS TO AVOID : NONE KNOWN

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLAY

Issued: 28/7/03

HAZARDOUS DECOMPOSITION PRODUCTS: MELTING OF THIS PRODUCT OVER 500°C WILL RELEASE CARBON DIOXIDE.

10.2 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

10.3 INCOMPATIBILITY (MATERIALS TO AVOID): NONE

11. TOXICOLOGY INFORMATION

THE PRODUCT HAS NOT SHOWN ANY EVIDENCE IN TESTS SO FAR OF BEING CARCINOGENIC, MUTAGENIC OR TOXIC FOR REPRODUCTION. IN MANY OF THE TESTS REVIEWED UP TO NOW, THE TESTS INDICATED NO SIGNIFICANT ADVERSE LONG TERM EFFECTS IF THE PRODUCT IS USED AS INTENDED AND RECOMMENDED BY THE MANUFACTURER. THERE IS CONSIDERABLE PRESUMPTION, PARTIALLY SUPPORTED BY EXPERIMENTAL FINDINGS, THAT IT IS RAPIDLY METABOLISED AND EXCRETED BY MAMMALS.

12. ENVIRONMENT PRECAUTIONS

12.1 PREVENT ENTRY INTO DRAINS, SEWERS AND WATER COURSES BEFORE THE PRODUCTS DISSOLVED.

12.2 TOXICOLOGY: NO EFFECTS INDICATED ON ANIMALS OR PLANTS

Page: 4-4

13. DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL METHOD: INCINERATION OR LANDFILL COMPLYING WITH REGULATIONS APPLICABLE IN COUNTRY OF USE.

13.2 DRUM DISPOSAL: REMOVE SURPLUS MATERIAL AND DISPOSE AS ABOVE, OR RECYCLE.

14. TRANSPORTATION INFORMATION

ROAD TRANSPORT (ADR/RID)	: <u>NOT REGULATED</u>
MARITIME TRANSPORT (IMDG Code)	: <u>NOT REGULATED</u>
AIR TRANSPORT (ICAO/IATA)	: <u>NOT REGULATED</u>
MARPOL	: <u>NOT REGULATED</u>

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CLAY

Issued: 28/7/03

15. OTHER INFORMATION

NOTE:

THE INFORMATION CONTAINED HEREIN IS FOR HEALTH AND SAFETY GUIDANCE ONLY AND DOES NOT CONSTITUTE A SPECIFICATION. IT IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.

WARNER JENKINSON EUROPE**PRODUCT DATA**

Product ref. : 310501 USACERT F D & C BLUE No.1
 1974 Colour Index Ref. : C.I. Food Blue 2
 C.I. No. 42090
 Common Name : Brilliant Blue FCF
 Composition, when packed
 Brilliant Blue FCF : 85 % min. (total colour content)
 Sodium Chloride : }
 Sodium Sulphate : } 15 % max.
 Volatile Matter : }
 Chemical Name : Disodium α -(4-(N-ethyl-3-sulphonatobenzylamino)phenyl)- α -(N-ethyl-3-sulphonatobenzylimino)cyclohexa-2,5-dienylidene)toluene-2-sulphonate.
 Empirical Formula : $C_{27}H_{29}N_3O_7S_3Na_2$
 Molecular Weight : 792.84

PURITY

Arsenic	3 ppm max.
Lead	10 ppm max.
Subsidiary Dyes	6.0 % max.
Leuco Base	5.0 % max.
Water Insoluble Matter	0.2 % max.
Sum of o, m, and p-sulpho-benzaldehydes	1.5 % max.
N-ethyl-n-(m-sulphobenzyl) sulphanilic acid	0.3 % max.
Chromium	50 ppm max.

General Requirements:

Each batch of colour is certified by the Food and Drug Administration, USA.

Note: The above colour is suitable for the colouring of food in the USA and in many other countries. However, not all food may be coloured. Information on use and regulatory aspects will be supplied on request

Ref: RRF/KRF iss 02. 04/94

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we do not guarantee any results, and we are not liable for any damage incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Registered Office: Oldmeadow Road, King's Lynn, Norfolk PE30 4LA
 Registered in England No. 741008 as Warner Jenkinson Europe Limited.

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

PRODUCT IDENTIFICATION

Product Code: 310501
 Trade Name/Description: Usacert Blue FD&C Blue No.1
 Synonyms: Brilliant Blue FCF
 Chemical Family: Triaryl methane dyestuff
 Chemical Name: (Benzene methanaminium, N-ethyl-N-[4(4-
 : (Ethyl((3-sulphophenyl)methyl)phenyl)
 : (2-sulphophenyl)methylene)-2,5
 : cyclohexadien-1-ylidene)-3-sulpho-
 : hydroxide inner disodium salt
 :
 :
 :
 Formula: C37 H36 N2 O9 S3 Na2
 C.I. Reference: C.I. Food Blue 2, No.42090
 C.A.S Number: 3844-45-9
 MSDS Date: 06/11/90

PHYSICAL DATA

Melting Range: Decomposes
 Boiling Range: not applicable
 Decomposition Temperature: >200 C
 Specific Gravity (Water=1): not applicable
 Viscosity: not applicable
 Vapour Pressure: not applicable
 Vapour Density (Air=1): not applicable
 % Non Volatile: >90%
 Evaporation Rate: not applicable
 pH: 6-8 (1% solution)
 Solubility in Water: soluble
 Odour & Colour: Blue powder without odour
 Physical Form: Powder
 Other Data:

CHEMICAL DATA

Chemical Name	CAS Number	Qty	Other Information

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

FIRE AND EXPLOSION DATA

FLASH POINT	not applicable
FLAMMABLE LIMITS	not applicable
EXTINGUISHING MEDIA	Water mist. Foam. Dry chemical. CO2.
FIRE FIGHTING PRECAUTIONS	Wear impervious clothing and self-contained breathing apparatus (NIOSH approved for USA).
UNUSUAL HAZARDS	Product may burn or smoulder if ignited. May form flammable or explosive dust clouds in air.
HAZARDOUS PRODS OF FIRE/DECOMP	Thermal decomposition may produce oxides of carbon, nitrogen and sulphur.

HEALTH HAZARD DATA

ACUTE ORAL TOXICITY	LD 50 > 2grms/kg (tested on rats)
SKIN IRRITATION	non irritant (tested on rabbits)
EYE IRRITATION	non irritant (tested on rabbits)
EFFECTS OF OVEREXPOSURE	Ingestion - Ingestion may result in gastric disturbances Skin Contact - Irritation not expected. Eye Contact - Irritation possible through mechanical action of dust particles Inhalation - May cause discomfort to respiratory tract
CHRONIC TOXICITY	Extensive investigations indicate low toxicity

EMERGENCY & FIRST AID

INHALATION	Remove from area and obtain medical attention.
EYE CONTACT	Wash with water for at least 15 minutes and obtain medical attention.
SKIN CONTACT	Wash with soap and water. If irritation exists obtain medical attention.
INGESTION	In case of ingestion obtain medical attention. DO NOT INDUCE VOMITING.

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

REACTIVITY DATA

STABILITY Product stable.

POLYMERISATION Product will not polymerise.

INCOMPATIBILITY Avoid strong oxidising or reducing agents.

SPILLAGE AND LEAKAGE PROCEDURES

STEPS Contain spillage and transfer to a sealable container. Residue may be washed and will dissolve in water.

WASTE DISPOSAL METHOD Incineration or landfill complying with regulations applicable in country of use (Federal, State & Local in USA)

DRUM DISPOSAL Remove surplus material and dispose as above, or recycle.

SPECIAL PROTECTION PROCEDURES

VENTILATION Handle in well ventilated area or provide efficient exhaust ventilation. Avoid dust generation.

RESPIRATORY PROTECTION If exposure likely to be significant, use dust mask (NIOSH approved in USA)

HANDLING Use Gloves (Plastic or Rubber)
Use light eye protection
Use boiler suit or overall
Take precautions against exposure when decontaminating protective equipment.

SPECIAL PRECAUTION AND STORAGE DATA

Store in sealed containers under cool, dry conditions away from sources of heat and electricity.

LABELLING & SHIPPING DATA

CLASSIFICATION (EC) not dangerous

SYMBOL not applicable

RISK PHRASES not applicable

SAFETY PHRASES not applicable

OTHER INFORMATION not applicable

⊗

Telephone Number 0553-763236
Emergency Telephone Number 0553-763236
Emergency for USA Customers
Telex Number 817144
Telefax Number 0553-766891

Warner Jenkinson Europe
Oldmadow Road
Hardwick Industrial Estate
King's Lynn
Norfolk

PE30 4JJ, U.K

TOTAL P.20



WARNER JENKINSON EUROPE

PRODUCT DATA

Product ref.	: 310122 DSACERT F D & C YELLOW No.5
1971 Colour Index Ref.	: C.I. Food Yellow 4, C.I. No. 19140
F.D.A. Status	: F D & C Yellow No.5 (when certified)
Common Name	: Tartrazine
Composition when packed	
Tartrazine	: 87 % min. (total colour content)
Sodium Chloride	: }
Sodium Sulphate	: } 13 % max.
Volatile Matter	: }
Chemical Name	: Trisodium 5-hydroxy-1-(4-sulphonatophenyl)-4-(4-sulphonato-phenylazo)pyrazole-3-carboxylate.
Empirical Formula	: C ₁₆ H ₁₀ N ₄ O ₆ S ₃ Na ₃
Molecular Weight	: 534.4
PURITY	
Arsenic	: 3 ppm max.
Lead	: 10 ppm max.
Mercury	: 1 ppm max.
Water Insoluble Matter	: 0.2 % max.
4,4'-[4,5-Dihydro-5-oxo-4-[(4-sulphophenyl)hydrazono]-1h-pyrazol-1,3-diyl]bis(benzenesulphonic acid) trisodium salt	: 1.0% max.
4-[(4',5-Disulpho[1,1'-biphenyl]-2-yl)hydrazono]-4,5-dihydro-5-oxo-1-(4-sulphophenyl)-1h-pyrazole-3-carboxylic acid, tetrasodium salt	: 1.0 % max.
Ethyl or methyl 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-4-[(4-sulphophenyl)hydrazono]-1h-pyrazole-3-carboxylate, disodium salt	: 1.0 % max.
Sum of 4,5-dihydro-5-oxo-1-phenyl-4-[(4-sulphophenyl)azo]-1h-pyrazole-3-carboxylic acid, disodium salt, and 4,5-dihydro-5-oxo-4-(phenylazo)-1-(4-sulphophenyl)-1h-pyrazole-3-carboxylic acid, disodium salt	: 0.5 % max.
4-Aminobenzenesulphonic acid	: 0.2 % max.
4,5-Dihydro-5-oxo-1-(4-sulphophenyl)-1h-pyrazole-3-carboxylic acid, disodium salt	: 0.2 % max.
Ethyl or methyl 4,5-dihydro-5-oxo-1-(4-sulphophenyl)-1h-pyrazole-3-carboxylate, sodium salt	: 0.1 % max.
4,4'-(1-Triazene-1,3-diyl)bis(benzenesulphonic acid), disodium salt	: 0.05 % max.
4-aminoazobenzene	: 75 ppb max.
4-aminobiphenyl	: 5 ppb max.
Aniline	: 100 ppb max.
Azobenzene	: 40 ppb max.
Benzidina	: 1 ppb max.
1,3-diphenyltriazene	: 40 ppb max.

General Requirements:

Each batch of colour is certified by the Food and Drug Administration, USA.
 Note: The above colour is suitable for the colouring of food in the USA and in many other countries. However, not all food may be coloured. Information on use and regulatory aspects will be supplied on request.

Ref: KEC/KRF iss 02. 05/94

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we do not guarantee any results, and we are not liable for any damage incurred by following these instructions. The information contained herein is to be construed as a recommendation only. It does not constitute an offer of any product or service.

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

PRODUCT IDENTIFICATION

Product Code: 310122
 Trade Name/Description: Usacert FD&C Yellow No.5
 Synonyms: Tartrazine
 Chemical Family: Azo dyestuff
 Chemical Name: 1 H-Pyrazole-3-carboxylic acid,4,5-
 : dihydro-5-oxo-1-(4-sulphophenyl)-4-
 : [(4-sulphophenyl)-azo]-trisodium salt
 :
 :
 :
 :
 Formula: C16 H9 N4 O9 S2 Na3
 C.I. Reference: C.I. Food Yellow 4, No.19140
 C.A.S Number: 1934-21-0
 MSDS Date: 18/10/90

PHYSICAL DATA

Melting Range: Decomposes
 Boiling Range: not applicable
 Decomposition Temperature: >200 C
 Specific Gravity (Water=1): not applicable
 Viscosity: not applicable
 Vapour Pressure: not applicable
 Vapour Density (Air=1): not applicable
 % Non Volatile: >90%
 Evaporation Rate: not applicable
 pH: 6-8 (1% solution)
 Solubility in Water: soluble
 Odour & Colour: Yellow powder without odour
 Physical Form: Powder
 Other Data:

CHEMICAL DATA

Chemical Name	CAS Number	Qty	Other Information

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

FIRE AND EXPLOSION DATA

FLASH POINT not applicable

FLAMMABLE LIMITS not applicable

EXTINGUISHING MEDIA Water mist. Foam. Dry chemical. CO2.

FIRE FIGHTING PRECAUTIONS Wear impervious clothing and self-contained breathing apparatus (NIOSH approved for USA).

UNUSUAL HAZARDS Product may burn or smoulder if ignited. May form flammable or explosive dust clouds in air.

HAZARDOUS PRODS OF FIRE/DECOMP Thermal decomposition may produce oxides of carbon, nitrogen and sulphur.

HEALTH HAZARD DATA

ACUTE ORAL TOXICITY LD 50 - 12.75grms/kg (tested on mice)

SKIN IRRITATION non irritant

EYE IRRITATION No data

EFFECTS OF OVEREXPOSURE
Ingestion - Ingestion may result in gastric disturbances
Skin Contact - Irritation not expected
Eye Contact - Irritation possible through mechanical action of dust particles
Inhalation - May cause discomfort to respiratory tract

CHRONIC TOXICITY Extensive investigations indicate low toxicity

EMERGENCY & FIRST AID

INHALATION Remove from area and obtain medical attention.

EYE CONTACT Wash with water for at least 15 minutes and obtain medical attention.

SKIN CONTACT Wash with soap and water. If irritation exists obtain medical attention.

INGESTION In case of ingestion obtain medical attention. DO NOT INDUCE VOMITING.

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

REACTIVITY DATA

STABILITY Product stable.

POLYMERISATION Product will not polymerise.

INCOMPATIBILITY Avoid strong oxidising or reducing agents.

SPILLAGE AND LEAKAGE PROCEDURES

STEPS Contain spillage and transfer to a sealable container. Residue may be washed and will dissolve in water.

WASTE DISPOSAL METHOD Incineration or landfill complying with regulations applicable in country of use (Federal, State & Local in USA)

DRUM DISPOSAL Remove surplus material and dispose as above, or recycle.

SPECIAL PROTECTION PROCEDURES

VENTILATION Handle in well ventilated area or provide efficient exhaust ventilation. Avoid dust generation.

RESPIRATORY PROTECTION If exposure likely to be significant, use dust mask (NIOSH approved in USA)

HANDLING Use Gloves (Plastic or Rubber)
Use light eye protection
Use boiler suit or overall
Take precautions against exposure when decontaminating protective equipment.

SPECIAL PRECAUTION AND STORAGE DATA

Store in sealed containers under cool, dry conditions away from sources of heat and electricity.

LABELLING & SHIPPING DATA

CLASSIFICATION (EEC) not dangerous

SYMBOL not applicable

RISK PHRASES not applicable

SAFETY PHRASES not applicable

OTHER INFORMATION not applicable

Material Safety Data Sheet

Warner Jenkinson Europe

Printed on 27th April 1995

OTHER DATA

EINECS STATUS	Material listed in the EINECS chemical substances inventory
TSCA STATUS	Material listed in the TSCA chemical substances inventory

Notes

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Warner Jenkinson Europe
Oldmeadow Road
Hardwick Industrial Estate
King's Lynn
Norfolk

Telephone Number 0553-763236
Emergency Telephone Number 0553-763236
Emergency for USA Customers
Telex Number 817144
Telefax Number 0553-766891

PE30 4JJ, U.K

WARNER JENKINSON

Warner-Jenkinson Company, Inc.
2526 Baldwin Street
P.O. Box 14538
St. Louis, Missouri 63178-4538, U.S.A.

PRODUCT SPECIFICATION

NO. K7057 D&C RED #33 (Ac 2365)

DESCRIPTION: A bluish red, water soluble powder with a characteristic hue when dissolved and viewed in a 10 ppm water solution.

SYNONYMS: Acid Fuchsine
Acid Red 33

NO.: 17200

CAS NO.: 3567-66-6

PURE DYE: Not less than 82%.

IDENTIFICATION: A 10 ppm solution buffered with 0.30 grams per liter of ammonium acetate compares favorably with the accepted standard prepared likewise using any spectrophotometer, colorimeter or visual method.

PACKAGING: This product is packaged in one, five and twenty-five pound plastic containers and in one-hundred pound fiber drums. Custom packaging is available upon request at an additional cost.

STORAGE: Product should be kept in closed container at ambient temperature and humidity.

SHELF LIFE: Indefinite if kept under recommended storage conditions.

FDA STATUS: May be safely used in ingested drugs (other than mouthwashes and dentifrices) in amounts not to exceed 0.75 milligrams per daily dose.

May be safely used for coloring cosmetic lip products in amounts not to exceed 3.0% by weight of the finished product.

May be safely used in mouthwashes (including breath fresheners), dentifrices and externally applied cosmetics in amounts consistent with good manufacturing practice.

May be safely used in externally applied drugs and cosmetics in amounts consistent with good manufacturing practice.

This product is approved by the FDA and meets the specifications outlined in the Code of Federal Regulations, Title 21, Part 74.2333 and 74.1333.

MMC
CSL
12/94

A subsidiary of
UNIVERSAL FOODS CORPORATION
Customer/Technical Service 1-800-325-8110

Technical Service Fax 1-314-658-7314

Customer Service Fax 1-314-658-7318

*** TOTAL PAGE.005 ***

SECTION I - PRODUCT IDENTIFICATION

CAS Number	3567-66-6
Chemical Family	Mono Azo
Formula	$C_{16} H_{11} N_3 O_7 S_2 Na_2$
CI Number	17200

SECTION II - HAZARDOUS INGREDIENTS

None

SECTION III - PHYSICAL DATA

Boiling Point (F)	Not applicable
Vapor Pressure (mmHg)	Not applicable
Vapor Density	Not applicable
Solubility in Water	Soluble
Percent Volatile by Weight	Not applicable
Evaporation Rate	Not applicable
Specific Gravity	Not applicable
Appearance and Odor	Odorless red powder

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point	Not applicable
Flammable limits	LEL-Not applicable UEL-Not applicable
Extinguishing Media	Water Spray
Special Fire Fighting Procedures	Use waterfog, carbon dioxide and dry chemical
Unusual Fire and Explosion Hazards	None.

SECTION V - HEALTH HAZARD DATA

Threshold limit values	5 mg/M3 respirable dust 15 mg/M3 total dust (OSHA) 10 mg/M3 total dust (ACGIH)
Effects of overexposure	Possible mild respiratory discomfort associated with dust inhalation.
Emergency First Aid	
Inhalation:	Remove individual to fresh air.
Eyes:	Flush eyes with water.
Ingestion:	Induce vomiting and obtain medical attention as required.
Carcinogen ?	No

SECTION VI - REACTIVITY DATA

Stability:	Product is stable.
Hazardous Polymerization:	Will not occur
Incompatibility:	Strong oxidizing agents.
Hazardous Decomposition:	Thermal decomposition may produce carbon monoxide, carbon dioxide and oxides of nitrogen and sulfur.

TOTAL P.07