

Erythrulose

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 09-25-2015
Supersedes: 11-07-2012

1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Erythrulose	Distributor:	XI'AN AOGU BIOTECH CO.,LTD
Synonyms:	Red Raspberry Sugar, L-1,3,4-Trihydroxy-butan-2-on	Address:	Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road,Yanta District,Xi'an Shaanxi 710065 China
INCI Name:	D-erythrulose	Phone / Fax:	0086-29-89121514 / 0086-18091843361
CAS Number:	533-50-6	Web:	www.aogubio.com
Formula:	C ₄ H ₈ O ₄	Emergency Telephone Number:	0086-180-9184-3361 (Chemtrec)
Product Form:	Liquid		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification:	Not classified												
GHS Labeling:	Not classified												
GHS Hazard Pictograms:	None												
GHS Hazard Statements:	None												
GHS Precautionary Statements:	None												
Potential Health Hazards:	Eyes: Not irritant. Inhalation: Not expected to be irritant. Skin: Not irritant. Ingestion: No data available												
NFPA Ratings (704):	<table border="0"> <tr> <td>Health</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>Flammability</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>Reactivity</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>Specific Hazard</td> <td colspan="2">n/a</td> </tr> </table>	Health	n/a	n/a	Flammability	n/a	n/a	Reactivity	n/a	n/a	Specific Hazard	n/a	
Health	n/a	n/a											
Flammability	n/a	n/a											
Reactivity	n/a	n/a											
Specific Hazard	n/a												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Erythrulose	533-50-6	100%	120 g/mol

4 FIRST AID MEASURES

Eyes:	In case of eye contact, rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.
Inhalation:	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
Skin:	Flush with plenty of water and wash using soap.
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical, water spray) for adjacent fire. Do not use water.
Special protective equipment & precautions for firefighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Flash Points: >121°C (249.8°F)
Specific hazards arising from the chemical: May emit toxic fumes under fire conditions. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions: Not available
Methods and material for containment and cleaning up: Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling: See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
Conditions for safe storage, incl. any incompatibilities: Store in cool, dry well ventilated area. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Erythrulose	None necessary		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Chemical safety glasses or goggles.
Inhalation: Not needed under normal conditions of use.
Body: Gloves, slip proof shoes may be worn where spills may occur.
Other: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Viscous liquid	Vapor Pressure:	1243 Pa (@ 20-25°C)
Odor:	Characteristic	Relative Density:	1.39 (@ 20°C)
Taste:	Not available	Viscosity:	~350 cSt (mm ² /s)
Color:	Clear - yellowish	Flammability:	None
Molecular Weight:	120 g/mol	Self-ignition temperature:	>340°C (644°F)
pH:	2.0 - 3.5	Solubility:	Easily soluble in cold or hot water. Soluble in methanol, toluene, cottonseed oil, corn oil. Insoluble in mineral oil
Boiling Point:	>180°C (356°F)		
Melting Point:	<-80°C (-176°F)		
Flash Point:	>121°C (249.8°F)		
Specific Gravity:	Not available		
Solubility:	Soluble in water		

10 STABILITY AND REACTIVITY

Reactivity:	Product is stable
Chemical Stability:	Product is stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	None known

11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 (rat): >2000 mg/kg for 16% Erythrulose
Skin:	Neither irritative nor sensitizing
Eyes:	Not irritative
Respiratory:	No expected to be a health hazard
Ingestion:	Not available
Carcinogenicity:	Not available
Teratogenicity:	Not available
Germ Cell Mutagenicity:	Non mutagenic in AMES Test and Chromosome Aberration Test.
Embryotoxicity:	Not available
Specific Target Organ Toxicity:	Not available
Reproductive Toxicity:	Not available
Respiratory/Skin Sensitization:	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Not toxic for Daphnia magna, Algae (<i>Selensastrum capricornutum</i>), nor Fish (Carp, <i>Cyprinus carpio</i>)
Persistence and Degradability:	Biodegradable (63% after 7d, 78% after 28d)
Bioaccumulative Potential:	None expected
Mobility in Soil:	Not determined
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	Erythrulose is composed of physiological and biodegradable compounds that are harmless when released into the environment.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated
TDG (Transportation of Dangerous Goods, Canada):	Not regulated
IMDG (International Maritime Dangerous Goods):	Not regulated
IATA (International Air Transport Association):	Not regulated
ICAO (International Civil Aviation Organization):	Not regulated

15 REGULATORY INFORMATION

TSCA Inventory Status: Not classified as a dangerous material.
DSCCL (EEC): Not classified as a dangerous material.
WHMIS (Canada): Not classified as a dangerous material.

16 OTHER INFORMATION

Revision Date: 09-25-2015

Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.