

Dihydroxyacetone (DHA)

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


Revision Date: 09-24-2015
Supersedes: 11-06-2012

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Dihydroxyacetone	Distributor: MakingCosmetics.com Inc.
Synonyms: 1,3-dihydroxyacetone	Address: 10800 231 st Way NE
INCI Name: Dihydroxy-2-propanone, dihyxal	Redmond, WA 98053 (USA)
CAS Number: 96-26-4	Phone / Fax: 425-292-9502 / 425-292-9601
Formula: C ₃ H ₆ O ₃	Web: www.makingcosmetics.com
Product Form: Powdered solid	
Product Use: Cosmetic use	Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Skin Irrit. 2, Eye Irrit. 2, STOT SE 3
GHS Signal Word: **WARNING**

GHS Hazard Pictograms: 

GHS Hazard Statements:
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

GHS Precautionary Statements:
P280: Wear protective gloves, eye/face protection
P305: If in eyes rinse cautiously with water for several minutes. Remove contact lenses.

Potential Health Hazards:
Eyes: May be irritant.
Inhalation: May be irritant.
Skin: May be irritant.
Ingestion: May be irritant.

NFPA Ratings (704):

Health	0	Minimal
Flammability	0	Minimal
Reactivity	1	Slight
Specific Hazard	n/a	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Dihydroxyacetone	96-26-4	100%	90.08 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) 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: No data available

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>
Dihydroxyacetone	Not available		

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, or face shield.
Inhalation:	Avoid breathing dust. Use NIOSH/OSHA-approved respiratory protective equipment.
Body:	Gloves recommended to prevent skin contact. 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:	Crystalline powder	Vapor Pressure:	Not available
Odor:	Faint	Vapor Density:	Not available
Taste:	Not available	Evaporation Rate:	Not available
Color:	Off-white	Flammability:	May be combustible
Molecular Weight:	90.08 g/mol	Upper/lower Explosive Limit:	Not available
pH (5% water)	4.0 - 6.0	Flash Point:	Not available
Boiling Point:	Not available	Specific Gravity:	Not available
Melting Point:	68 - 71° C (154 - 160° F)	Solubility:	Soluble in water

10 STABILITY AND REACTIVITY

Reactivity:	Product is stable
Chemical Stability:	Product is stable, may lose activity when stored @ >6° C (43° F)
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid strong oxidizers
Incompatible Materials:	None known
Hazardous Decomposition Products:	None known

11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 (rat): 16 g/kg
Skin:	Tolerated well by rabbits in acute skin and mucous membrane tolerance tests. Reacts with horny layer of skin and does not penetrate into deeper skin layers. May cause skin to become transiently discolored to red or brown.
Eyes:	May be irritant

Respiratory:	May be irritant
Ingestion:	May be irritant
Carcinogenicity:	Not available
Teratogenicity:	Not available
Germ Cell Mutagenicity:	Not available
Embryotoxicity:	Not available
Specific Target Organ Toxicity:	Not available
Reproductive Toxicity:	Not available
Respiratory/Skin Sensitization:	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	Not available
Aquatic Invertebrate:	Not available
Terrestrial:	Not available
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	Not available

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 regulated
DSCL (EEC):	Not regulated
WHMIS (Canada):	Non controlled

16 OTHER INFORMATION

Revision Date: 09-24-2015

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.