

SAFETY DATA SHEETS

Product name: Dihydroxyacetone

Prepared in accordance with GB/T 16483, GB/T 17519

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version : 1.0

DHA

Part 1 Chemical and Firm Identification

Product Identification:

Product name: DHA

Product name : 1,3-dihydroxyacetone

Corporate Identity:

Company name: Gree Industry CO., LTD

Enterprise address: Chemical Road, East Chemical Zone, Gao xin District,
Zibo City, Shandong China

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Product Recommendations and Restricted Uses: Recommended uses:

cosmetic raw materials such as tanning agents and hair dyes, food
additives, feed additives pharmaceutical intermediates, etc

Restricted use: No data

Part 2 Overview of Hazards

Emergency Overview: not

GHS Hazard category : According to the Global Harmonized Chemicals Division Categories and Labelling System (GHS) provisions, not a hazardous substance or mixture.

GHS labelling elements, including precautionary statements

Pictogram: None

Warning: None

Hazard Statement: None

Physical and chemical hazards: According to the available information The chemical is non-oxidizing and non-explosive Non-flammable

Health hazards: According to available information, there are no health hazards.

Environmental Hazards: According to available data, no environmental hazards.

Other hazards: No data available

Part 3 Composition/composition information

Chemical name	INCI standard Chinese name call	Concentration (Mass Fraction %)	CAS number	EC number
1,3-Dihydroxyacetone	Dihydroxyacetone	≤ 100	96-26-4	202-494-5

Part 4 First Aid Measures

First aid:

Inhalation: if inhaled, symptoms develop, move the patient to fresh air; If symptoms persist, seek medical attention;

If you have difficulty breathing, give oxygen. Keep people warm and quiet, seek medical attention immediately.

Skin contact: Rinse skin with soapy and clean water. If you feel unwell, seek medical attention.

Eye contact: Separate the eyelids Rinse the eyes with running water or saline for at least 15 yearsminute to seek immediate medical attention.

Ingestion: Never feed anything to an unconscious person. Rinse your mouth with water and seek medical attention immediately.

Most important acute and delayed symptoms and effects: no data available.

Prompt medical care and specific treatment: no data available.

Part 5 Fire protection measures

Extinguishant:

Suitable extinguishing agent and extinguishing method: Use water spray, alcohol-resistant foam, dry chemicals or carbon dioxide extinguishing agent to extinguish the fire.

Unsuitable extinguishing agent: Avoid using direct flow water to extinguish fires, which may cause splashing of flammable liquids and spread the fire.

Special hazards caused by substances or mixtures:No data available.

Fire extinguishing precautions and protective measures:

Wear protective clothing to prevent contact with skin and eyes.

Firefighters must wear air-carrying breathing apparatus.

Isolate the scene of the accident and prohibit unrelated personnel from entering.

Shelter and treat fire water to prevent environmental pollution.

Part 6 Emergency Response to Spills

Protective measures, protective equipment and emergency response procedures for workers:

Emergency responders are advised to wear air-carrying respirators , anti-static clothing , and rubber oil-resistant gloves.

Remove all sources of ignition. When the amount is large: Disperse the dust with water mist. Avoid dust generation. Avoid inhaling vapors, aerosols, or gases.

Environmental protection measures

Contain spills to avoid polluting the environment. Prevent spills from entering sewers, surface water, and groundwater.

Methods of containment and removal of spilled chemicals and disposal materials used

Sweep and shovel off. Place in a suitable closed container for disposal.

Refer to other sections

See Section 13 for discard disposal.

Part 7 Handling, Disposal and Storage**Precautions:**

Operators should be specially trained and strictly follow the operating procedures.

Keep away from fire and heat sources , and smoking is strictly prohibited in the workplace.

Wash your hands after use and do not eat or drink in the workplace.

Where dust is generated , provide suitable exhaust equipment. General fire protection measures.

Precautions for storage:

Keep cool and dry at 2-8°C to prevent moisture absorption.

Specific End Use: N/A

Part 8 Exposure Control/Personal Protection

Occupational exposure limits: no data available

Biological limitations: No data available

Monitoring Methods:

GBZ/T 160.1 ~ GBZ/T 160.81-2004 Determination of Toxic Substances in Workplace Air (Series ,), EN

14042 Workplace Air Guidelines for Procedures for Evaluating Exposure to Chemical or Biologic Reagents

Personal Protective Equipment:

Respiratory protection: When the concentration in the air exceeds the standard, wear a filtering gas mask (half mask). Emergency rushSave or evacuate

When leaving, you should wear an air-carrying respirator.

Hand protection: Wear protective gloves made of plastic or rubber.

Eye protection: Safety glasses with side guards.

Skin and body protection: Wear anti-toxic penetrating overalls depending on the concentration and content of hazardous substances in the specific workplace.

Hygiene measures:

Dispose of in accordance with good industrial hygiene and safety practices. Wash your hands before breaks and at the end of the workday.

Engineering Controls:

It is recommended that the workplace be separated from other workplaces.

Closed operation to prevent leakage.

Use mechanical exhaust and enhance ventilation to avoid contact.

Part 9

Appearance: White to off-white powder

Odor: No data available

pH (5%) : 3 - 6

Melting Point: 75-80°C

Boiling Point: 188°C

Flash Point: N/A

Upper and lower combustion limits or explosion limits: N/A

Vapor pressure: 0.006 Pa (25°C).

Part 10 Stability and reactivity

Stability: Stable under recommended storage conditions.

Reactivity: No data available

Possibility of dangerous reactions: May react violently with strong oxidizing agents.

Conditions to avoid: No data available

Contraband: No data available

Hazardous decomposition products: No data available

Other decomposition products: No data available

Part 11 Toxicological Information

Acute toxicity:

Oral: OECD 401, Wistar rats, oral gavage, LD50: >16 000 mg/kg bw.

Percutaneous: no data available.

Inhalation: OECD 403, Wistar rats, inhalation: aerosol, 4h-LC50: > 5 mg/L air.

Skin irritation or corrosion:

In vivo skin irritation test: OECD 404, New Zealand White Rabbit, closed test, no skin irritation.

Eye irritation or corrosion:

In vivo eye irritation test: OECD 405, New Zealand white rabbit, no eye irritation.

Respiratory or skin allergies:

In vivo skin sensitization test: OECD 429, regional lymph node test (LLNA) in mice, CBA mice, Non-allergenic.

Germ cell mutagenicity:

Bacterial revert mutation test: OECD 471, Salmonella typhimurium TA 1535, TA 1537, TA 98, TA 100with

TA 102: negative.

In vitro mammalian cell gene mutation test: OECD 476, Chinese hamster lung fibroblasts (V79), negative.

In vitro mammalian cell chromosomal aberration test: OECD 473, Chinese hamster lung fibroblasts (V79), negative.

In vivo mammalian erythrocyte micronucleus test: OECD 474, ddY mice, negative.

Carcinogenicity:

Carcinogenicity test: percutaneous, Swiss Webster mice, non-carcinogenic.

Reproductive toxicity:

No data available.

Teratogenicity:

Prenatal Developmental Toxicity Study: OECD 414, Wistar Rats, Oral

Intragastric Administration, Maternal NOEL: > 1 000 mg/kg bw/day; fetal, NOEL: > 1 000 mg/kg bw/day.

Specific target organ system toxicity — One exposure:

No significant toxic effects were found in acute oral and inhalation tests.

Specific target organ system toxicity — Repeated exposure:

Subchronic oral toxicity (90 days): OECD 408, Wistar rats, oral gavage, /b19> NOEL: 1 000 mg/kg.

Inhalation Hazards:

No data available

Part 12 Ecological Information

Ecotoxicity:

Acute toxicity:

Fish: OECD 203, zebrafish, static, running water, 96h-LC50: > 1 00 mg/L.

Aquatic invertebrates: OECD 202, Cinnamomum magnum, static, flowing water, 48h-EC50: > = 100 mg/L.

Algae: OECD 201, Spirillum algae, static, flowing water, 72h-EC50 (growth rate) : > 100 mg/L, 72h-NOEC
Growth rate): > = 100 mg/L.

Chronic toxicity:

Fish: no data available.

Aquatic invertebrates: no data available.

Persistence and degradability:

Rapid biodegradation: OECD 301D, closed bottle test, 28The daily degradation rate is 77%, and it satisfies 10Window of days period, which is rapidly biodegradable.

Bioaccumulation or bioaccumulation:

Based on $\log K_{ow} \leq 3$, the bioaccumulation potential of this substance is low.

Mobility in soils:

No data available.

Other harmful effects:

Microbiological toxicity: OECD 209, 3h-EC50: > 1 000 mg/L.

Part 13 Disposal

Waste Chemicals:

Give the remaining and non-recyclable solution to a licensed company for disposal. It must not be disposed of by discharging it into the sewer.

Contaminated packaging:

Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

Precautions for disposal:

Refer to relevant national and local regulations before disposal
See Section 8 for safety precautions for handling personnel

Section 14 Shipping Information

UN Number:

European Dangerous Regulations for Land Transport: - International
Maritime Dangerous Regulations: - International Air Dangerous
Regulations:-

UN Transport Name:

European Dangerous Goods by Land: Non-Dangerous Goods
International Maritime Dangerous Goods: Non-Dangerous Goods
International Air Dangerous Goods: Non-Dangerous Goods

Transport Hazard Categories:

European Dangerous Regulations for Land Transport: -	International Maritime Hazard Regulations: -	International Air Transport Dangerous Regulations: -
Packing group:		
European Dangerous Regulations for Land Transport: -	International Maritime Hazard Regulations: -	International Air Transport Dangerous Regulations: -

Environmental Hazards:

European Ground Transport Hazard Regulations: No

International Maritime Hazard Regulations: No

International Air Freight Hazard Regulations: No

Marine pollutants (yes/no): No

Special precautions:

Please choose the appropriate means of transportation and the corresponding transportation and storage conditions according to the nature of the chemical. The means of transport should be equipped with the corresponding variety and the number of fire-fighting materials and leakage emergency treatment equipment. If you choose road transportation, please follow the prescribed route.

Part 15 Regulatory Information

Rules/regulations specific to the safety, health and environment of this substance or mixture:

Law of the People's Republic of China on the Prevention of Occupational Diseases:

Classification of Occupational Disease Hazard Factors (2015): Not included

Regulations on Labor Protection in Workplaces Using Toxic Substances:

List of highly toxic substances: not included

Regulations on the Safety Management of Hazardous Chemicals:

List of Hazardous Chemicals (2015): Not included

List of Dangerous Goods Chemicals under Key Supervision:

List of the first and second batches of hazardous chemicals under key supervision: not included

List of Toxic Chemicals Restricted by China: Not Included

Regulations on the environmental management of the first import of chemicals and the import and export of toxic chemicals:

List of Toxic Chemicals Severely Restricted in China: Not Included

Environmental Management Measures for New Chemical Substances:

List of existing chemical substances in China (including all additions): Included

Miscellaneous:

Please note that waste disposal should also meet the requirements of local regulations.

Part 16 Other information

Writing and revising information:

This version is version 1.0

Abbreviations and acronyms:

LD50: Half lethal dose

b.w.: body weight

LC50: Half lethal concentration

EC50: Half effective concentration

NOEC: No observed effect concentrations

Source:

EU ECHA

<https://echa.europa.eu/es/registration-dossier/-/registered-dossier/1158>

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