西安绿天生物技术有限公司
Plamed Green Science Group

Material Safety Data Sheet

For Tetrahydrocurcumin

Section 1 - Product and Company Identification

Product Name	Tetrahydrocurcumin
Manufacturer/Supplier	Plamed Green Science Group
Address	69# Jinye Rd., High-Tech Zone, Xi'an, P. R. China.
Phone Number	+ 86-29-88215350

Section 2 - Recommended use of the chemical and restrictions on use

·Identified uses: For industry only.

·Uses advised against: no data available.

Section 3 - Hazards Identification, Including Emergency Overview

·Hazard description: Not Applicable.

·GHS label elements, including precautionary statements

Pictogram(s): No symbol.

Signal word: No signal word.

Hazard statement(s): NO.

Precautionary statement(s): NO.

Prevention: NO.

Response: NO.

Storage: NO.

Disposal: NO.

·Other hazards which do not result in classification: NO.

Section 4 - First Aid Measures

·Description of necessary first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

· Indication of immediate medical attention and special treatment needed, if necessary: no data available

Section 5 - Fire Fighting Measures

· Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

·Specific hazards arising from the chemical: no data available

·Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 - Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

·Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

·Methods and materials for containment and cleaning up: Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

· Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

· Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 - Exposure Controls & Personal Protection

·Control parameters

Occupational Exposure limit values: no data available

Biological limit values: no data available

· Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

·Individual protection measures, such as personal protective equipment (PPE)

·Eye/face protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· Skin protection: Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

·Respiratory protection: Wear dust mask when handling large quantities.

·Thermal hazards: no data available

Section 9 - Physical & Chemical Properties

Physical state: NO.

Colour: NO.

Odour: NO.

Melting point/ freezing point: 95-97℃.

Boiling point or initial boiling point and boiling range: 564.1 ℃ at 760mmHg

Flammability: NO.

Lower and upper explosion limit / flammability limit: NO.

Flash point: 196.2℃

Auto-ignition temperature: NO.

Decomposition temperature: NO.

Ph: NO.

Kinematic viscosity: NO.

Solubility: NO.

Partition coefficient n-octanol/water (log value): NO.

Vapour pressure: NO.

Density and/or relative density: 1.222

Relative vapour density: NO.

Particle characteristics: NO.

Section 10 - Stability & Reactivity Data

·Reactivity: no data available

·Chemical stability: Stable under recommended storage conditions.

·Possibility of hazardous reactions: no data available

·Conditions to avoid: no data available

·Incompatible materials: no data available

·Hazardous decomposition products: no data available

Section 11 - Toxicological Information

·Acute toxicity: Oral: no data available

Inhalation: no data available

Dermal: no data available

·Skin corrosion/irritation: no data available

·Serious eye damage/irritation: no data available

·Respiratory or skin sensitization: no data available

·Germ cell mutagenicity: no data available

·Carcinogenicity: no data available

·Reproductive toxicity: no data available

·STOT-single exposure: no data available

·STOT-repeated exposure: no data available

·Aspiration hazard: no data available

Section 12 - Ecological Information

·Toxicity: Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

·Persistence and degradability: no data available

·Bioaccumulative potential: no data available

·Mobility in soil: no data available

·Other adverse effects: no data available

Section 13 –Disposal Considerations

·Disposal methods:

Product: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14 –Transport Information

·UN Number: ADR/RID: no data available; IMDG: no data available; IATA: no data available.

·UN Proper Shipping Name: ADR/RID: no data available; IMDG: no data available; IATA: no data available.

·Transport hazard class(es): ADR/RID: no data available; IMDG: no data available; IATA: no data available.

·Packing group, if applicable: ADR/RID: no data available; IMDG: no data available; IATA: no data available

·Environmental hazards: ADR/RID: no; IMDG: no; IATA: no.

·Special precautions for user: no data available.

·Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: no data available.

Section 15 – Regulatory Information

·Safety, health and environmental regulations specific for the product in question.

Chemical name	Common names and synonyms	CAS number	EC number
tetrahydrocurcumin	tetrahydrocurcumin	36062-04-1	none
INCI name	CURCUMA LONGA (TURMERIC) ROOT EXTRACT		
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.

Section 16 – Other Information

·Abbreviations and acronyms:

TWA: Time Weighted Average

IATA: International Air Transportation Association

IMDG: International Maritime Dangerous Goods

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

·References:

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

·Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Plamed Green Science Group shall not be held liable for any damage resulting from handling or from contact with the above product. See www.plamed.cn and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.