



## MATERIAL SAFETY DATA SHEET

### Section 1 Description

Product Name	Osthol
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 Ingredients/Identity Information

Chemical name	CAS-No.	EC number	Concentration
Osthol	484-12-8	None	100%

### Section 3 Hazards Identification

➤ Classification of the substance or mixture: no data available

➤ GHS label elements, including precautionary statements:

Pictogram(s): no data available

Signal word: no data available

Hazard statement(s): no data available

Precautionary statement(s) Prevention: no data available

Response: no data available

Storage: no data available

Disposal: no data available

➤ Other hazards which do not result in classification: no data available

### 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.

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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

- Extinguishing media: 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

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- 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.



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Thermal hazards: no data available

### Section 9 Physical and Chemical Properties

Physical state: Fine White Powder

Color: no data available

Odor: no data available

Melting point/ freezing point: 153 °C(lit.)

Boiling point or initial boiling point and boiling range: 168 °C/6mmHg(lit.)

Flammability: no data available

Lower and upper explosion limit / flammability limit: no data available

Flash point: 86 °C(lit.)

Auto-ignition temperature: no data available

Decomposition temperature: no data available

pH: no data available

Kinematic viscosity: no data available

Solubility: no data available

Partition coefficient n-octanol/water (log value):

Vapour pressure: 1.67E-06mmHg at 25 °C

Density and/or relative density: 1.126 g/cm<sup>3</sup>

Relative vapour density: no data available

Particle characteristics: no data available

### Section 10 Stability and Reactivity

- Reactivity no data available
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: no data available



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- 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



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- 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: UN1993, IMDG: UN1993, IATA: UN1993
- UN Proper Shipping Name: ADR/RID: FLAMMABLE LIQUID, N.O.S, IMDG: FLAMMABLE LIQUID, N.O.S, IATA: FLAMMABLE LIQUID, N.O.S.
- Transport hazard class(es): ADR/RID: 3, IMDG: 3, IATA: 3
- Packing group, if applicable: ADR/RID: 3, IMDG: 3, IATA: 3
- 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

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Chemical name	Common names and synonyms	CAS number
osthol	osthol	484-12-8
European Inventory of Existing Commercial Chemical Substances (EINECS)		
EC Inventory		
United States Toxic Substances Control Act (TSCA) Inventory		
China Catalog of Hazardous chemicals 2015		
New Zealand Inventory of Chemicals (NZIoC)		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)		
Vietnam National Chemical Inventory		
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)		

#### Section 16 Other Information

➤ Information on revision

Creation Date: Aug 11, 2017

Revision Date: Aug 11, 2017

➤ Abbreviations and acronyms

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

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%



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EC50: Effective Concentration 50%

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