



**Ingredients4u PTE. LTD.**

Address: 50 Macpherson Road #07-01 Amazana  
Building Singapore 348471

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT

#### 1.1 PRODUCT identifiers

Name: Diosmin

#### 1.2 Manufacturer/Supplier

Ingredients4u PTE. LTD.

Address: 50 Macpherson Road #07-01 Amazana Building Singapore 348471

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### 2. HAZARD IDENTIFICATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name: Diosmin

Synonym: 3',5,7-trihydroxy-4'-methoxyflavone 7-rutinoside

Source: 100% Nature Citrus Extracted

Molecular Formula: C<sub>28</sub>H<sub>32</sub>O<sub>15</sub>

Molecular Weight: 608.55

CAS: 520-27-4

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### 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing becomes difficult, call a physician.

Skin contact: Flush with copious amounts of water and soap for at least 15 minutes. Remove contaminated clothing and shoes.

Eyes contact: Assure adequate flushing by separating the eyelids with fingers.

Ingestion: Wash out mouth with water and administer fresh water provided that the person is conscious.

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

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### 5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry chemical powder or appropriate foam. Water spray.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

Dangerous combustion products: CO<sub>x</sub> and other noxious gases or vapours in case of incomplete combustion.

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## **6. ACCIDENTAL RELEASE MEASURES**

Switch off electrical equipment and any other sources of ignition. Evacuate area.  
Wear self-contained breathing apparatus, appropriate boots and heavy rubber gloves.  
Collect residues manually, wipe with a small quantity of dimethyl sulfoxide, place in a bag and hold for waste disposal. Avoid raising dust/mist. Ventilate area and wash spill site with water/detergent solution after material pick up is complete.

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## **7. HANDLING AND STORAGE**

Conditions: Protect from light and keep in well-closed container, at a dry and well-ventilated place with temperature.

Indications: Don't be close to dust and fire sources.

Ensure transmission equipment earthed safely.

Use under well-ventilated condition; Avoid absorption and touching with skin, eyes.

Provide dry proof device for grinding, mixing and drying procedures.

Seal the package after use.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

Mechanical exhaust, safety shower and eye bath required.

Respiratory protection: Protecting mask (filter P1).

Hand protection: Compatible chemical-resistant gloves.

Eye protection: Wear protective chemical safety goggles.

Skin protection: Wear protective suit.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Character: Greyish-yellow to light yellow hygroscopic powder.

Solubility: Practically insoluble in water, soluble in dimethyl sulfoxide, practically in soluble in alcohol. Diosmin dissolves in dilute solutions of alkali hydroxides.

Melting point: 274°C

Flash point: No data available

Log Pow: 0.14

Carrier: none

Preservative: None

Shelf life: 36 months from date of production\_

Assay<HPLC>: 90%—102%

Loss on drying: 6.0% max

Sulfated ash: 0.2% max



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#### Microbiology

Total plate count: 1000cfu/g max

Yeast & Mould: 100cfu/g max

E.coli: negative

Salmonella: negative

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### 10. STABILITY AND REACTIVITY

Stability: Stable under recommended conditions of use.

Conditions to avoid: Humidity. Heat. Ignition.

Materials to avoid: Strong oxidizing agents.

Dangerous decomposition

products: CO<sub>x</sub> and other substances in case of incomplete decomposition.

Hazardous polymerisation will not occur.

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### 11. TOXICOLOGICAL INFORMATION

RTECS No: Not available

See actual entry in RTECS for complete information.

LD50 (oral-rat): No data available

LC50 (inhalation-rat): No data available

LC50 (skin-rat): No data available

May be irritating if inhaled or in contact with eyes. May affect the gastro-intestinal system.

May cause headache. May cause flushes.

Carcinogenicity, Mutagenicity, Reproductive toxicity and Sensitisation:

May cause allergic skin reactions. No evidence of an absence of carcinogenicity, mutagenicity, reproductive toxicity or sensitisation.

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### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Practically insoluble in water.

Biodegradation: Diosmin is of plant origin. Risk of persistence in nature is considered low.

Bioaccumulation and mobility:

Log Pow: 0.14 Risk of redistribution into fats considered low.

BCF: No data available

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### 13. DISPOSAL CONSIDERATIONS

Incinerate in an approved facility.

Observe all federal state and local environmental regulations.

### 14. TRANSPORT INFORMATION

Marine pollutant: Not classified

<b>Transport regulation</b>	<b>UN Classification</b>
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	<b>UN number shipping name – Class (other risk)– PG</b>
<b>IATA/ICAO (air)</b>	<b>Not classified</b>
<b>ADR/RID (road/railway)</b>	<b>Not classified</b>
<b>IMDG (sea)</b>	<b>Not classified</b>

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## 15. REGULATORY INFORMATION

This substance is not listed in Annex I of Directive 67/548/EC

S phrases:

S22 Do not breathe dust.

S36/37 Wear suitable protective clothing and gloves.

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## 16. OTHER INFORMATION HMIS Rating

The information contained here is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them, and must make independent determinations of suitability and completeness of information from all sources, to assure proper use and disposal of these materials, and the safety and health of employees and customers, and the protection of the environment.

Packaging Materials: Standard export cardboard drum<45cm×50cm>.

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Product name: Diosmin

Revision Date: Sep 28,2021

Previous Date: Sep 28,2020

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Name and Address:



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