



MATERIAL SAFETY DATA SHEET

1. PRODUCT

1.1 PRODUCT identifiers

Name: Diosmin : Hesperidin 9:1

1.2 Manufacturer/Supplier

Smarterb _____

2. HAZARD IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name: Diosmin

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

Source: 100% Nature Citrus Extracted

Molecular Formula: C₂₈H₃₂O₁₅

Molecular Weight: 608.55

CAS: 520-27-4

Name: Hesperidin

Synonym: Cirantin; Glucopyranoside, hesperetin-7 6-O-(6-dexoxy-alpha-L-mannopyranosyl-, beta-D; Hesperidoside; Hesperitin-7-rhammo glucoside.

Source: 100% Nature Citrus Extracted

Molecular Weight: 610.54

CAS: 520-26-3

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.



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_x and other noxious gases or vapours in case of incomplete combustion.

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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.

Flash point: No data available

Log Pow: 0.14

Carrier: none

Preservative: None

Shelf life: 24 months from date of production



Diosmin Assay<HPLC>: 81.0%—92.0%
Hesperidin Assay<HPLC>:9.0%—14.0%
Loss on drying: 6.0% max
Solvent residues: Pyridine: 200ppm max
Heavy metals: 10ppm max
Sulfated ash: 0.3% max

Microbiology

Total plate count: 1000cfu/g max
Yeast & Mould: 100cfu/g max
E.coli: negative
Salmonella: negative

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_x and other substances in case of incomplete decomposition.
Hazardous polymerisation will not occur.

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.

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



13. DISPOSAL CONSIDERATIONS

Incinerate in an approved facility.

Observe all federal state and local environmental regulations.

14. TRANSPORT INFORMATION

Marine pollutant: Not classified

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

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.

16. OTHER INFORMATION

The related laws and regulations should be strictly applied when this product is used in medicines, foods and feed.

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>.

Further information

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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.

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