

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE	N0267
PRODUCT NAME	NATURAL NARIGIN
SUPPLIER	Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation,	Hazard Category 2
Serious eye damage/eye irritation,	Hazard Category 2
Specific target organ toxicity — Single exposure,	Hazard Category 3, Respiratory tract irritation.

GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Warning

Hazard Statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statements:

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Other hazards:
Not available.

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM: naringenin-7-beta-neohesperidoside
Formula: C₂₇ H₃₂ O₁₄
Molecular Weight: 580.54
CAS-N0.: 10236-47-2
EC-No.: 233-566-4
Index-No.: -
Concentration: -

4. FIRST-AID GUIDE:

Consumption:

If swallowed, rinse mouth with water. Seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Eye contact:

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

Inhalation:

Remove person to fresh air and keep at rest.

Skin contact:

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

Most important symptoms and effects, both acute and delayed:

Irritating to respiratory system (cough).

Causes serious eye irritation. Irritating to skin or mucous membranes (inflammation). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

Read label before use. No additional information available.

Indication of any immediate medical attention and special treatment needed:

Not available.

5. FIRE-FIGHTING GUIDE:

Extinguishing media:

Carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet.

Special hazards arising from the substance or mixture:

Not applicable.

Advice for firefighters:

In case of fire in the surrounding area, follow the recommendations below: - Avoid inhalation of fumes or vapours. Use appropriate respiratory protection. - Prevent run-off from firefighting to enter drains or water courses.

6. ACCIDENTAL RELEASE GUIDE:**Personal precautions, protective equipment and emergency procedures:**

Wear appropriate gloves to prevent skin exposure. Avoid dust formation and prevent scattering by moistening with water. Maintain adequate ventilation in the working area after spilling.

Environmental precautions:

Avoid contaminating the environment via the sewers or water sources.

Methods and material for containment and cleaning up:

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.

Reference to other sections:

See section 13.

7. HANDLING AND STORAGE:**Precautions for safe handling:**

Keep away from food, drink and animal feeding stuffs. Do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities:

Keep the product in its original container well sealed in a dry and ventilated area away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.

Specific end use(s):

Not available

8. EXPOSURE AND PERSONAL PROTECTION:**Control parameters:**

Declaration of substances is not required.

Exposure controls

Personal protection equipment:

Use personal protection equipment according to Directive 89/686/EEC.

Eye/Face protection

Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Respiratory Protection

Use personal breathing apparatus whenever deemed necessary.

Skin Protection

Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.

Engineering Controls-Ventilation

The areas where the product is handled and stored should be adequately ventilated.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

Appearance:	POWDER SOLID
Colour:	WHITE - YELLOW
Odour:	BITTER, CITRIC
Boiling Point:	922.00-926.00°C
Density:	1,000 g/cm ³ (20 °C)
Flash Point:	300 °C
Additional information:	Not applicable.

10. STABILITY AND REACTIVITY:

Reactivity:

Not available.

Chemical stability:

Stable under normal operating conditions.

Possibility of hazardous reactions

Hazardous Polymerization:

It does not undergo any dangerous reactions under normal conditions.

Conditions to avoid:

Avoid excessive heat, sparks or open flame.

No special precautions other than good housekeeping of chemicals.

Incompatible materials:

None known.

Hazardous decomposition products:

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Toxicological effects:

See also sections 2 and 3.

12. ECOLOGICAL INFORMATION:

Acute aquatic toxicity:

No data available.

Persistence and degradability:

Not available.

Bioconcentration Factor:

Not determined

Mobility in soil:

Not available.

Results of PBT and vPvB assessment:

Not determined.

Other adverse effects:

Do not allow the material to enter streams, sewers or other waterways.

13. DISPOSAL RECOMMENDATIONS:

Waste treatment methods

Container disposal:

Do not reuse empty containers.

Disposal conditions:

Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

14. TRANSPORTATION INFORMATION:

International Carriage of Dangerous Goods by

Road (ADR) UN N.: Proper Shipping Name: Packing Group: Class: Tunnel restriction code: Label:	N/A Not subject to ADR. - - - -
Air Transport (ICAO/IATA) UN No.: Proper Shipping Name: Class: Packing Group:	N/A Not restricted. - -
Sea Transport (IMDG) UN No.: Proper Shipping Name: Class: Packing Group: EmS: Marine Pollutant:	N/A Not restricted. - - No

15. REGULATORY INFORMATION:

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Substances are either included in EINECS, ELINCS, NLP inventories or exempt.

Chemical safety assessment:

Not available.

16. OTHER INFORMATION:

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Prepared By: M&U International LLC

REVISED: 02/17/2015