

MATERIAL SAFETY DATA SHEET (MSDS)

TARTARIC ACID

It contains 99.05% minimum of PURE TARTARIC ACID.

INHALATION: Remove to fresh air, help to breathe and obtain medical attention.

PRECAUTIONS:

NON-TOXIC PRODUCT

STABLE PRODUCT under normal conditions.

Slightly acidic product which may be a irritant to the skin, mucous membrane and eyes.

Do not breathe the dust produced.

Store in a dry place.

Wash with abundant water after handling.

EMERGENCY FIRST AIDS

SKIN : Wash with abundant water, alkalinized if possible, if irritation is serious, obtain medical attention.

EYES : Wash first with abundant water, then with alkaline collyrium and visit an oculist.

INGESTION : Give sodium bicarbonate in moderate amounts and obtain medical attention.

A NOURISHING AND PHARMACEUTICAL PRODUCT

PRECAUTIONS IN CASE OF SPILLS:

No special precautions are necessary to contain spills.

In case of special sensitivity to the product, wear safety glasses, closed dresses, gloves and dust masks.

FIRE AND EXPLOSION HAZARD:

Non-explosive product.
Non-flammable product.

IDENTIFICATION:

Chemical Formula : C4H6O6
Molecular Weight : 150.09
CAS N° Formula : 87-69-4
Melting Point : 168-170°C
Specific Gravity : 1.7698

INDUSTRIAS VINICAS S.A.

Galvarino Gallardo 1588
Santiago-CHILE

United States Offices:

194 Camino Oruga, #9, Napa, CA 94558
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SECTION I

Chemical Name

TARTARIC ACID
L(+) TARTARIC ACID
(2r, 3r) TARTARIC ACID

Nourishing additive pharmaceutical product

Chemical Formula

C₄H₆O₆
BUTHANEDIOLDIOIC

Description

Colorless crystal white powder

Identification

Chemical family **CAS N°**
Dihydroxylated 87-69-4
organic acids.

Synonyms **Richness**
Natural tartaric acid 99.5% mh

Natural State **Molecular**
Weight
Solid under 150.09
normal conditions

SECTION II

Manufacturer

INDUSTRIAS VINICAS, S.A.

Address

Galvarino Gallardo 1588
Providencia,
Santiago-CHILE

Manufacturer's Information

Emergency Telephone:

911

Telephone for information:

Tel: 888-204 9333

Fax: 888-761-4007

SECTION III

Component

TARTARIC ACID

Ingredients

Main Impurities

Within limits set forth by the UNITED STATES PHARMACOPEIA XXII, NATIONAL FORMULARY, and FOOD CHEMICAL CODEX.

Significant

Concentrated solutions are irritants.

SECTION IV

FIRE OR EXPLOSION HAZARD

Fire or explosion hazard : NULL
NON-FLAMMABLE, INCOMBUSTIBLE
NON-EXPLOSIVE product.

SECTION V

HEALTH HAZARDS

Exposure to POWDERED TARTARIC ACID may be an irritant to eyes, skin and mucous membranes.

Swallowing significant amounts may produce gastric disorders, stomach acidity, irritation of larynx, pharynx and esophageal, as well as intestinal disorders.

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EMERGENCY AND FIRST AIDS

SKIN : Wash with abundant water, better if slightly alkalized; if irritation is serious, obtain medical attention.

EYES : Wash first with abundant water and then with an alkaline collyrium and visit the oculist.

INGESTION : Give sodium bicarbonate in moderate amounts and obtain medical attention.

INHALATION: Remove to fresh air, help to breathe and obtain medical attention.

SECTION VII

REACTIVITY

STABILITY:

Under normal conditions **TOTALLY STABLE** to the air and the light. **NON-HYGROSCOPIC, NON-EFFLORESCENT.**

INCOMPATIBILITIES:

In an aqueous dissolution mixed with **CARBONATES**, it produces abundant foam with a release of **CARBON DIOXIDE (CO2)** which may be accrued in pits and depressed areas, giving rise to a lack of air for people or animals.

In an aqueous dissolution mixed with alkalites, may cause increases in temperature

SECTION VI

TOXICITY:

NON-TOXIC product.

RECOMMENDED DOSAGE FOR MAN:

0.30 mg/kg weight

DECOMPOSITON HAZARD:

NULL under normal conditions.

CARCINOGENIC:

No risks have been described in this field.

POLYMERIZATION HAZARD:

NULL under normal conditions.

MUTAGENIC:

No risks have been described in this field.

STORAGE CONDITIONS:

Store in a dry place far away from toxic products

MAIN ABSORPTION PATHS:

Inhalation, mucous membranes, ingestion.

EFFECTS OF A PROLONGED EXPOSURE:

See section V, Health Hazards

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SECTION VIII

PHYSICAL PROPERTIES

MELTING POINT:

168 - 170 ° C

SPECIFIC HEAT (20° C):

0.288 cal/g/°C

SOLUBILITY : WATER:

at 0° C : 115 g/100 ml
at 100° C : 343 g/100 ml

SPECIFIC GRAVITY at 20° C:

1.7598

SPECIFIC ROTATION:

aqueous sol. 20/00, 20° C 689.2 nm
+11.9 to +13.0

COMBUSTION HEAT:

-275.1 kcal/mol

DI-ELECTRIC CONSTANT:

at 1200 nm
36.0

CRYSTALLINE SYSTEM:

Clinorhombic wedge-shaped crystal.

SECTION IX

PRECAUTIONS IN HANDLING AND USE

WAY OF USE:

According to federal, state and local regulations.

PRECAUTIONS IN CASE OF SPILLS:

Collect without any special precaution, except for the use of gloves, dust mask and safety glasses.

SECTION X

SAFETY PRECAUTIONS

In case of special sensitivity to the product, use closed garments, safety glasses (do not use contact lenses), rubber gloves and dust mask.

After handling the product, especially its POWDER, wash with abundant water.

VINICAS

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