



Safety Data Sheet

Cream of Tartar

Created: 04/05/2015

According with the EC REGULATION No.1907/2006, EC REGULATION No. 453/2010 and GHS.
C&L Notification Reach. Submission number: GU947793-01

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 SUBSTANCE IDENTIFICATION

Potassium Bitartrate L (+)

Synonyms: Cream of Tartar, Potassium Hydrogen Tartrate, Potassium Bitartrate

1.2 USES OF THE SUBSTANCE

Ph regulator and tartaric stabilizer in production of wines and as leavening agent for baking powder specially.

1.3 COMPANY IDENTIFICATION

Company

Chemistry Connection

Address

253 Sturgis Road
Conway, AR 72034
(501) 470-9689
www.chemistryconnection.com

Email address

contact@thechemistryconnection.com

1.4 EMERGENCY TELEPHONE NUMBER

CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification:

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals.

Physicochemical hazards: none identified.

Hazards for human: none identified.

Hazards for animals and the environment: none identified.

2.2 LABEL ELEMENTS

GHS symbol: Not classified

No need for a pictogram, pursuant to EC REG. N° 1272/2008.

Prevention: P280: wear protective gloves, protective clothing, eye protection, face protection

P261: Avoid breathing dust, fume, gas, mist, vapours, spray

P262: Do not get in eyes, on skin, or on clothing

2.3 OTHER HAZARDS

No information available.



Safety Data Sheet

Cream of Tartar

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Potassium Bitartrate with assay similar or superior to 99.5 %

Chemical name: Monopotassium SALT of L-2,3-dihydroxybutanedioic acid

CAS NUMBER: 868-14-4

EINECS NUMBER: 2127691

EU N°: E-336i. Food additive.

Molecular weight: 188.18 g/mol

Formula: $C_4H_5KO_6$

Potassium hydrogen tartrate is a naturally occurring salt of L-tartaric acid. It is an approved GRAS food additive.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID MEASURES DESCRIPTION

Skin contact: In case of contact with skin, wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

Eyes contact: Rinse thoroughly with plenty of water, use alkaline eye drops and consult an ophthalmologist.

Ingestion: In the event of an ingestion, take sodium bicarbonate in moderate doses and seek medical advice.

Inhalation: Breathe fresh air, if necessary use a mask and seek medical advice.

4.2 MAIN SYMPTOMS AND EFFECTS

May be irritant to eyes, skin and mucous membranes.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Call a doctor in case of exposure.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Adequate extinguishing means: Water under pressure. Foam. Carbonic gas. Dry powder.

Inadequate means: No one specially remarkable is Known.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire, gas and hazardous vapours may be formed.

5.3 ADVICE FOR FIRE-FIGHTERS

Protective clothing for fire-fighting: it is recommended a mask breathing apparatus and suitable fireproof suit.

Additional information: Water for extinction must not arrive to sewers, to ground nor water. Provide enough devices for extinction water retention. Fire rests and extinction water contaminated must be eliminated according to current local laws.

SECTION 6: MEASUREMENTS TO BE TAKEN IN CASE OF ACCIDENTAL DUMPING

Any special precaution is necessary to be taken.

In case of special sensitivity to the product, use safety glasses, closed clothes and masks for powder.

Remove or aspire the dumping and put it in an adequate container to be eliminated.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

In case of special sensitivity to product, use close clothes that cover the most part of body (not use contact lens), latex gloves and mask to avoid the powder.

After having used the product, specially if it is powder, wash with abundant water.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING POSSIBLE INCOMPATIBILITIES

Store in a fresh (25 °C) and dry area (<80 HR).



Safety Data Sheet

Cream of Tartar

SECTION 8: EXPOSITION / PERSONAL PROTECTION CONTROLS

Limit values to be controlled in work place

No determined

Personal protection

None

Breath protection

Any protective special equipment is required.

If powder appears: Mask against powder with particles P2 filter

Hand Protection

Wear protective gloves manufactured with the following materials:

Cloth, latex, leather.

Eyes protection

Protective glasses with lateral covers.

If powder appears: grille glasses.

Skin and body protection

Use clothes that cover completely body to avoid possible irritations on skin.

Hygiene measurements

Not eat, nor drink, not to smoke during its utilisation. Before pauses and after having concluded work, wash hands and/or face.

Wash clothes contaminated before being used again.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid

Appearance/colour: powder or small white crystals.

Odour: No odor

Chemical formula: $C_4H_5KO_6$

Molecular weight: 188.18

Boiling point

Not described in any bibliography.

Specific heat (20°C)

0,288 cal/mg/°C

Solubility in water

At 10°C: 4g/1000ml

At 100 °C: 61 g/1000ml

pH (1%) in water

3.5 – 3.6

Specific density 20°C

1,2 g/ml

Specific rotation

Watery solution 20/00, 20°C, 589,2nm. (+32,5° at +35,5°)



Safety Data Sheet

Cream of Tartar

Combustion Heat:

275,1 Kcal/mol.

Refraction Index

1.511

Crystals form

Prisms in shape of rhombuses.

SECTION 10: STABILITY AND REACTIVITY

In normal conditions, it is TOTALLY STABLE to the air and to the light.
IT IS NOT HYGROSCOPIC, NOT FLUORESCENT.

INCOMPATIBILITIES

In a watery solution mixed with CARBONATES, it produces abundant foam with leak of CARBONIC ANHYDRIDE (CO₂).

DECOMPOSITION DANGER

NOT-EXISTENT in normal conditions.

POLYMERIZATION

NOT-EXISTENT in normal conditions.

STORAGE CONDITIONS

Store in a dry place away from toxic products.

SECTION 11: TOXICOLOGIC INFORMATION**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

This product IS NOT TOXIC.

LD50/LC50 : oral-rat LDLo: 22g/kg

Recommended human dose

0.38 mg/kg weight

Carcinogenicity

Not described any risk in this field.

Mutagenicity

Not described any risk in this field.

Main ways of absorption

Inhalation, mucous membranes, consumption.

SECTION 12: ECOLOGICAL INFORMATION

Behaviour in environment: It is biodegradable.

Ecotoxic effects: Unknown with concentrations that present.

SECTION 13: CONSIDERATIONS ABOUT ELIMINATION

Product: Could be incinerated using a postburner and gases picker.

Packaging: Those in paper and plastic could be incinerated.



Safety Data Sheet

Cream of Tartar

SECTION 14: TRANSPORT INFORMATION

Surface transport: Special precautions are not necessary.

Sea transport by vessel: Special precautions are not necessary.

Air transport: Special precautions are not necessary.

SECTION 15: REGULATORY INFORMATION

Signposting and labelling according to CEE regulations.

The substance is a food additive, and can be labelled like this. A special precautionary labelling is not compulsory.

SECTION 16: OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.