Trisodium citrate dihydrate

SAFETY DATA SHEET

Version: 1

Date: 12/05/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Chemical Name	Trisodium citrate dihydrate/Sodium Citrate
Trade name	Trisodium citrate dihydrate//Sodium Citrate
CAS No.	6132-04-3
EINECS No.	200-675-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	Personal care products, detergent/cleaning, household products, paper making.
Uses advised against	No uses advised against

1.3Details of the supplier of the Safety Data Sheet

Company Identification	Skyhawk Chemicals, Inc. 701 N. Post Oak Rd., Ste. 540, Houston, TX 77024
Telephone	713-957-2200/800-535-2847
Fax No:	713-957-0345
E mail	**order@skyhawkchemicals.com**

1.4 Emergency telephone number **Chemtrec 800-424-9300 Account # CCN721839**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Substances

EC Classification No. 1272/2008: Not classified

EC Classification No. 67/548/EEC: Not classified

2.2 Other hazards Not known

2.3 Additional Information Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Composition	%W/W	EC No.	CAS No
Trisodium citrate dihydrate	99.0 - 100.5	200-675-3	6132-04-3

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move to fresh air. Rinse nose and mouth with water. If irritation persists, seek medical assistance.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, seek medical assistance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and get medical attention if symptoms persist.
Ingestion	Do NOT induce vomiting Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person, seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed No adverse effects expected but dust may cause mechanical irritation

4.3 Indication of immediate medical attention and special treatment needed See 4.1 Eye contact

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	Use alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

5.2 Special hazards arising from the substance or Mixture Oxides of carbon.

5.3 Advice for fire-fighters In the event of fire, wear self-contained breathing apparatus and wear suitable protective clothing. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.4 Additional information Explosion hazard from the generation of dust.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

6.2 Environmental precautions Do not flush into surface water or sewage system.

6.3 Methods and material for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections Section 8

6.5 Additional Information Not known

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with skin and eyes. Use in well-ventilated areas. Do not breathe dust

7.2 Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.
Incompatible materials	Not known

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No limits assigned

8.1.2 Biological limit value	No values assigned
8.2 PNECs and DNELs	
DNELs – Health	No true DNEL for systemic toxicity can be derived.
PNEC-Environment	Not calculated
8.3 Exposure controls	Minimise the risk of dust inhalation.
8.3.1 Appropriate engineering controls	Provide adequate ventilation
832.2 Personal protection equipment	
Eye/face protection	Safety glasses with side-shields

Skin protection (Hand protection/ Other)	Avoid contact with skin, eyes and clothing. Wash hands before breaks and

at the end of workday. Protective gloves must satisfy the specifications EU Directiv 89/686/EEC and EN 374

Respiratory protection	Provide adequate ventilation. Wear a respirator where dust level exceeds 10 mg/m3

Thermal hazards	Not known
Hygiene measures	Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
8.3.3 Environmental Exposure Controls	Do not discharge to drain or water courses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid, crystalline
Colour	White
Odour	Odourless
Melting Point	Substance decomposes above 150°C
Boiling point/boiling range:	decomposes without boiling
Flash Point	Not relevant
pH	7.6-9.0
Flammability (solid, gas)	Non flammable
Density (g/ml)	1.86 at 20°C, trisodium citrate pentahydrate
Solubility (Water)	400- 700 g/l at 20-25°C
Partition Coefficient (Log Kow:	

-n-Octanol/water)	Not known
Decomposition Temperature	Not relevant
Surface tension	Not surface active
Vapour pressure	Vapour pressure: negligible (read-across from citric acid)
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

Granulometry	Particle size of fine grade trisodium citrate dihydrate below 100 µm =1.7% the D50 of the fraction below 100 µm was at 53.24 µm.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability	Stable under normal conditions
10.3 Conditions to avoid	Exposure to heat and moisture.
10.4 Incompatible materials	Sodium nitrite, potassium nitrite
10.5 Hazardous Decomposition Product(s)	Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion LD50	5400 mg/kg bw (based on citric acid)
Inhalation	No data
Skin Contact. LD50 (dermal):	>2000 mg/kg bw
Skin corrosion/irritation	Can be an irritant
Eye Contact	Dust can be an irritant
Respiratory or skin sensitization –skin	Not a sensitizer
Mutagenicity	Not a mutagen
Carcinogenicity	Not a carcinogen
Reproductive toxicity	Not a reproductive toxin
11.2 Other information	Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Not regarded as dangerous for the environment.
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	Not expected to bioaccumulate
12.4 Mobility in soil	Not applicable
12.5 Results of PBT and vPvB assessment	Not a PBT or a vPvB
12.6 Other adverse effects	Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
13.2 Additional Information	Not known

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)	Not subject to transport regulations.
14.2 Sea transport (IMDG)	Not subject to transport regulations.
14.3 Air transport (ICAO/IATA)	Not subject to transport regulations.
14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations	User to follow EU directives and regulations
Authorisations and/or restrictions on use	Not applicable
15.1.2 National regulations	User to follow national regulations

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Version 1

LEGEND

DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration

References:

Chemical Safety Report for citric acid and citrates

Regulations 1907/2006 (REACH), 1272/2008 & 453/2010 (CLP)

Directive 67/548/EEC & Directive 1999/45/EC

Risk Phrases and Safety Phrases

Not classified

Hazard statement(s) and Precautionary statement(s)

Not classified

Training advice: Ensure staff and workers receive adequate training with regular updates in the handling of chemicals

Additional Information

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