



Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 26042
Catalog Name: (Food Adducts) Citric acid

Company Identification:

Junsei Chemical Co., Ltd.
4-16, 4-Chome, Nihonbashi-Honcho, Chuo-ku
Tokyo, 103-0023 JAPAN
EMERGENCY TELEPHONE NUMBER: +81-48-988-3621
Sales Headquarters
6, 1-Chome, Ohmano-cho, Koshigaya, Saitama 343-0844, JAPAN
FAX: +81-48-988-8719 E-mail: shiyaku-t@junsei.co.jp
Web: <http://www.junsei.co.jp/>

CREATION DATE: February 2, 2009
REVISION DATE:

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: Citric acid monohydrate
SYNONYMS:
CAS NUMBER: 5949-29-1
US TSCA: inventory
EC NUMBER (EINECS): 201-069-1
JAPAN NUMBER (ENCS): 2-1318
PERCENTAGE: (GR) 99.5+%

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

Potential Health Effects

Eye:

Causes severe eye irritation.

Skin:

Causes moderate skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:
Causes respiratory tract irritation.
Chronic:
Not available.

SECTION 4 FIRST AID MEASURES

Eyes:
Flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the upper and lower eyelids.
Skin:
Flush skin with plenty of soap and water for at least 15 minutes
while removing contaminated clothing and shoes.
Ingestion:
Get medical aid. Wash mouth out with water.
Inhalation:
Remove from exposure to fresh air immediately.
Notes to Physician:

SECTION 5 FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in
pressure-demand, MSHA/NIOSH (approved or equivalent), and full
protective gear. Dusts at sufficient concentrations can form
explosive mixtures with air.
Extinguishing Media:
Use water spray, dry chemical, carbon dioxide, or chemical foam.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated
in Section 8.
Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal
container.

SECTION 7 HANDLING AND STORAGE

Handling:
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin
and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear a chemical apron.

Respirators:

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystalline powder
Appearance:	white
Odor:	odorless
pH:	Not available.
Vapor Pressure:	< 0.1 mbar @ 20 deg C
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	100 deg C
Autoignition Temperature:	1000 deg C (1,832.00 deg F)
Flash Point:	100 deg C (212.00 deg F)
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	
Solubility in water:	1630 G/L WATER (20-C)
Specific Gravity/Density:	1.5400g/cm ³
Molecular Formula:	H ₀₂ CCH ₂ C(OH)(CO ₂ H)CH ₂ CO ₂ H.H ₂ O
Molecular Weight:	210.15

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials.
Incompatibilities with Other Materials:
Strong oxidizing agents, strong bases, metal nitrates.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 5949-29-1: GE7810000
LD50/LC50:
Not available.
Carcinogenicity:
Citric acid -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:
Fish: Goldfish: LC50: 440 mg/l; 96H;
Other
Biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

IATA
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
IMO
Shipping Name: Not regulated.
Hazard Class:
UN Number:

Packing Group:
RID/ADR
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing group:

SECTION 15 REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system
and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face
protection.

WGK (Water Danger/Protection)

CAS# 5949-29-1: 0

United Kingdom Occupational Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 5949-29-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 5949-29-1 is not listed on the TSCA inventory.

It is for research and development use only.

SECTION 16 OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.