

Material Safety Data Sheet of 23/01/2012 Rev. JUNE 2015

OSMO-CA-020

Material Safety Data Sheet

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY:

Identification of the product:

Chemical name: Citric Acid

Commercial name: OSMO-CA-020

Identification of the company: OSMO SISTEMI S.r.l.
Via Toniolo, 8/b
61032 Fano (PU)
Tel. 0721/855023

Tel.:
- Hospital Niguarda (MI) 02-66101029

2 IDENTIFICATION ON THE INGREDIENTS:

The product is classified as dangerous according to the provisions set forth in Directives 67/548/CEE relative to dangerous substances and directives and 1999/45/EC relative to dangerous prepared and following amendments and adjustments. Therefore, this product requires a safety data sheet complies complies with the Regulation (CE) no.1272/2008 on classification, labeling and packaging of substances and mixtures (CLP). Any additional information concerning the risks for health and/or the environment are given in sections. 11 and 12 of this sheet

NUMBER EC: 201-069-1
COMPOSITION: 100%

PHRASES H: H319

Hazard symbols:



GHS05



OSMO SISTEMI s.r.l.

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Hazards identification

H319 Causes serious eye irritation

Safety advice:

P264 Wash hands thoroughly after use
P280 Wear protective gloves/protective clothing/eye protection/face
P305+P351+P338 In case of contact with eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If the irritation persists, consult a physician

Contains: Hydrochloric acid

OTHER HAZARDS:

Risk of dust explosion.

3 COMPOSITION/INFORMATION ON INGREDIENTS:**Substance:**

Commercial name: Citric acid
N. CAS: 5949-29-1
N. EC: 201-069-1
Conc. %: 100%
Class.1272/2008 (CLP): H319

4 FIRST AID MEASURES:

INHALATION: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, consult a doctor.
INGESTION: Rinse mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Call a physician.
SKIN: Immediately remove all contaminated clothing and shoes. Wash off with soap and plenty of water.
EYES: Immediately flush eyes with plenty of water. Remove contact lenses. Protect intact eye. While rinsing eye wide open. If eye irritation persists, call a physician.

5 FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Water, foam.

EQUIPMENT: In case of fire, wear self-contained breathing apparatus with independent air supply.

RECOMMENDATIONS: Collect contaminated firefighting water separately, must not be discharged into drains. In accordance with local regulations to dispose of the contaminated firefighting water residues and fire. Consider the risk of dust explosion.

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6 ACCIDENTAL RELEASE MEASURES:

PRECAUTION INDIVIDUAL:	Use personal protective equipment. Avoid formation of dust. Do not inhale dust. Provide adequate ventilation.
PRECAUTION AMBIENTAL:	Try to prevent the material from entering drains or water courses. No special precautionary measures to protect the environment.
METHODS FOR CLEANING UP:	Neutralize with chalk, alkali solution or ammonia. Pick up and arrange disposal without creating dust. Sweep up and shovel.

7 HANDLING AND STORAGE:

PRECAUTION FOR USE:	Avoid contact with eyes and skin. See section 8 for personal protective equipment. Do not eat, drink or smoke during work.
FIRE AND EXPLOSION HAZARD:	Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Avoid the accumulation of electrostatic charges.
STOCKING:	Keep container tightly closed and dry. No decomposition if stored and applied as directed. Storage temperature 10 - 30 ° C.

8 EXPOSURE CONTROL / PERSONAL PROTECTION:

Contains no substances with occupational exposure limit value.

PROTECTIVE EQUIPMENT

EYES:	Safety glasses with side-shields.
SKIN:	Choose a type of body protection according to the amount and concentration of the dangerous substance at the work place.
HANDS:	Protect your hands with gloves (eg nitrile rubber). Take into account the risk characteristics of this product and all the specific conditions of the workplace at the time of the choice of type of glove correct security
RESPIRATORY:	In case of dust or aerosol formation use a respirator with an approved filter.
HYGIENE:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES:

STATE:	Powder
COLOR:	White
ODOUR:	Odorless
PARTICLE SIZE:	< 5% < 0,149 mm
INFLAMMABILITY:	not highly flammable
CLASS OF DUST EXPLOSION:	St(H)1
MOLECULAR WEIGHT:	210,14 g/mol
Ph:	2,2 (ca 7 g/l)
MELTING POINT:	ca 100 °C

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DENSITY:	1,542 g/cm ³ (a 18°C)
WATER SOLUBILITY:	1000 g/l (25°C)
PARTITION COEFFICIENT:	-1,67
SOLUBILITY 'IN OTHER SOLVENTS:	Methane: 1970 g/kg (19°C) Ether: 21,7 g/kg Chloroform: 0,07 g/kg

10 STABILITY AND REACTIVITY:

CONDITION TO AVOID:	Temperature > 35°C
MATERIALS TO AVOID:	Strong acids and strong bases. Strong oxidizing agents.
HAZARDOUS REACTIONS:	Dust may form explosive mixtures with air

No decomposition if used as directed.

11 TOXICOLOGICAL INFORMATION:

SKIN:	Mild skin irritation.
EYES:	Severe eye irritation
TOXICITY 'ACUTE ORAL:	DL50 (topo): 5400 mg/kg DL50 (ratto): 3000 mg/kg
CARCINOGENICITY:	Animal testing did not show any effect
GENOTOXICITY IN VITRO:	Not mutagenic
GENOTOXICITY IN VIVO:	Not genotoxic
TOXICITY TO REPRODUCTION:	There are no indications of adverse effects on fertility
TERATOGENICITY:	Not teratogenic. Do not embryotoxic.
FURTHER INFORMATION CONTACT:	May cause irritation to the respiratory tract.

12 ECOLOGICAL INFORMATION:

Use according to good working practices, avoiding disposal in the environment. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

13 CONSIDERATION ABOUT DISPOSAL:

PRODUCT:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Hand the surplus and non-recyclable solutions to a licensed disposal company.
CONTAMINATED PACKAGING:	Dispose of as unused product. Do not reuse empty containers.

14 INDICATION ABOUT TRANSPORT:

The substance is not dangerous under current provisions governing the transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG) and air (IATA).

15 INFORMATION ABOUT REGULATION:

No specific regulations applicable

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16 OTHER INFORMATION:

Test of risk (R) phrases mentioned in section 2 of the sheet:

GENERAL BIBLIOGRAPHY:

Directive 1999/45/CE and following amendments
Directive 67/548/CEE and following amendments and adjustments
Directive 91/155/CEE and following adjustments
The Merck Index. Ed. 10
Handling Chemical Safety
Niosh – Registry of Toxic Effects of Chemical Substances
INRS – Fiche Toxicologique
Patty – Industrial Hygiene and Toxicology
N.I. Sax – Dangerous properties of Industrial Materials-7 Ed., 1989

This information contained in this safety data sheet is based on the knowledge available on the date of the last version.

The user must make sure about the fitness and entirety of information with regard to the specific usage of the product.

This document must not be considered as guarantee of any property of this product.

As the use of this product is not practiced under our direct control, it's a user's duty to observe under his own responsibility the laws and local regulation about hygiene and safety matter.

We do not to assume responsibility for illegitimate use.

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