

# OTTO CHEMIE PVT LTD

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-----ISO 9001: 2015-----

## MATERIAL SAFETY DATA SHEET

### 1. Identification

1.1 GHS Product identifier  
D-Gluconic acid 50%, solution  
Code G 1301

### 2. Hazard identification

2.1 Classification of the substance or mixture  
Not classified.  
2.2 GHS label elements, including precautionary statements  
Pictogram(s) No symbol.  
Signal word No signal word.  
Hazard statement(s) none  
Precautionary statement(s)  
Prevention none  
Response none  
Storage none  
Disposal none  
2.3 Other hazards which do not result in classification  
none

### 3. Composition/information on ingredients

#### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
D-gluconic acid	D-gluconic acid	526-95-4	none	100%

### 4. First-aid measures

4.1 Description of necessary first-aid measures  
General advice  
Consult a physician. Show this safety data sheet to the doctor in attendance.  
If inhaled  
Fresh air, rest.  
In case of skin contact  
Rinse skin with plenty of water or shower.  
In case of eye contact  
Rinse with plenty of water (remove contact lenses if easily possible).  
If swallowed  
Rinse mouth.

#### 4.2 Most important symptoms/effects, acute and delayed

no data available

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Absorption, Distribution and Excretion

(99)TCM-LABELED GLUCONATE WAS ACCUMULATED RELATIVELY EARLY IN THE KIDNEY, AND ESP IN THE URINARY TRACT.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Use powder, alcohol-resistant foam, water spray, carbon dioxide.

#### 5.2 Specific hazards arising from the chemical

no data available

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Separated from strong oxidants. **MAY BE STORED IN STAINLESS STEEL DRUMS. /COMMERCIAL PRODUCT/**

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

#### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

### 9. Physical and chemical properties

Physical state Clear, yellow to brown liquid - 50% by weight in water.

Colour **NEEDLES FROM ETHANOL & ETHER**

Odour no data available

Melting point/ freezing point 265°C (dec.) (lit.)

Boiling point or initial boiling point and boiling range 125°C/14.3mmHg

Flammability Combustible.

Lower and upper explosion limit / flammability limit no data available

Flash point 2°C (lit.)

Auto-ignition temperature no data available

Decomposition temperature no data available

pH no data available

Kinematic viscosity no data available

Solubility **FREELY SOL IN WATER; SLIGHTLY SOL IN ALC. INSOLUBLE IN ETHER AND MOST OTHER ORGANIC SOLVENTS**

Partition coefficient n-octanol/water (log value) -1.87 (estimated)

Vapour pressure no data available

Density and/or relative density 1.24 (50-52% aq.)

Relative vapour density no data available

Particle characteristics no data available

### 10. Stability and reactivity

#### 10.1 Reactivity

no data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

no data available

#### 11. Toxicological information

##### Acute toxicity

Oral: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

#### 12. Ecological information

##### 12.1 Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

##### 12.2 Persistence and degradability

no data available

##### 12.3 Bioaccumulative potential

no data available

##### 12.4 Mobility in soil

no data available

##### 12.5 Other adverse effects

no data available

#### 13. Disposal considerations

##### 13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

#### 14. Transport information

##### 14.1 UN Number

ADR/RID: UN3265

IMDG: UN3265

IATA: UN3265

##### 14.2 UN Proper Shipping Name

ADR/RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

##### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

##### 14.4 Packing group, if applicable

ADR/RID: III

IMDG: III

IATA: III

##### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

##### 14.6 Special precautions for user

no data available

##### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

#### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
D-gluconic acid	D-gluconic acid	526-95-4	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

#### Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

