



# **SAFETY DATA SHEET**

| Preparation Date: No data available<br>Product identifier  | <b>Revision Date:</b> 04/09/2015  | Revision Number: G1 |
|--|---|---------------------|
| Product code:<br>Product Name:                             | G2028<br>D-GLUCURONIC ACID  |                     |
| Other means of identification                              |   |                     |
| Synonyms:<br>CAS #:<br>RTECS #<br>CI#:                     | No information available<br>6556-12-3<br>LZ8836600<br>Not available   |                     |
| Recommended use of the chemic                              | cal and restrictions on use   |                     |
| Recommended use:<br>Uses advised against                   | No information available. No information available  |                     |
| Supplier:  | Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 |                     |
| Order Online At:   | https://www.spectrumchemical.com  |                     |
| Emergency telephone number Contact Person: Contact Person: | Chemtrec 1-800-424-9300<br>Martin LaBenz (West Coast)<br>Ibad Tirmiz (East Coast)                           |                     |
|  | 2. HAZARDS IDENTIFICATION   |                     |
| Classification   |   |                     |
| This chemical is not considered hazard                     | ous by the 2012 OSHA Hazard Communication Standard (29 G  | CFR 1910.1200)      |
| Not a dangerous substance or mixture                       | according to the Globally Harmonized System (GHS)   |                     |
| Label elements   |   |                     |
| Not classified   |   |                     |

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Not available

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components        | CAS-No.   | Weight % | Trade Secret |
|-------------------|-----------|----------|--------------|
| D-Glucuronic Acid | 6556-12-3 | 100      | *            |
| 6556-12-3         |           |          |              |

#### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

**Specific hazards:** May be combustible at high temperatures

**Special Protective Actions for Firefighters** 

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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#### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eves

and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

#### Methods and material for containment and cleaning up

**Methods for containment**Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

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

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Keep refrigerated.

#### **Incompatible Materials:**

Oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

# National occupational exposure limits

#### **United States**

| Components                    | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|-------------------------------|------|-------|-------|------------|
|                               | None | None  | None  | None       |
| D-Glucuronic Acid - 6556-12-3 |      |       |       |            |

#### Canada

| Components                    | Alberta | British Columbia | Ontario | Quebec |
|-------------------------------|---------|------------------|---------|--------|
|                               | None    | None             | None    | None   |
| D-Glucuronic Acid - 6556-12-3 |         |                  |         |        |

#### **Australia and Mexico**

| Components        | Australia | Mexico |
|-------------------|-----------|--------|
| D-Glucuronic Acid | None      | None   |
| 6556-12-3         |           |        |

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#### Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local

exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

#### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment** 

**Eye protection:** Safety glasses. Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

**Respiratory protection:** Effective dust mask. Wear respirator with dust filter...

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.No information availableWhite.

Odor: Taste Molecular/Formula weight:

No information available No information available 194.14

Formula:Flash point (°C):Flashpoint (°C/°F):C6H10O7No data availableNo information available.

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%): Not available

No information available

No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

No information available No information available 158°-161°C/316.4°-321.8°F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Bulk density:

Specific gravity: Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available 
No information available 
No information available

**Evaporation rate:** Vapor density: VOC content (g/L):
No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Soluble in cold water

#### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

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**Chemical stability** 

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents.

Hazardous decomposition products: Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Inhalation.

### **Acute Toxicity**

# **Component Information**

D-Glucuronic Acid - 6556-12-3

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

**VALUE- Acute Tox Oral =** No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal =** No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

**VALUE-Vapor =** No information available

VALUE-Gas = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available

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VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause digestive (gastointestinal) tract irritation.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

| Components        | ACGIH -     | IARC       | NTP        | OSHA HCS -  | Australia - Prohibited | Australia - Notifiable |
|-------------------|-------------|------------|------------|-------------|------------------------|------------------------|
| -                 | Carcinogens |            |            | Carcinogens | Carcinogenic           | Carcinogenic           |
|                   |             |            |            | _           | Substances             | Substances             |
| D-Glucuronic Acid | Not listed  | Not listed | Not listed | Not listed  | Not listed             | Not listed             |

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

**Mobility:** No information available

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#### 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

|   | Components        | RCRA - F Series<br>Wastes | RCRA - K Series<br>Wastes | RCRA - P<br>Series<br>Wastes | RCRA - U Series Wastes |
|---|-------------------|---------------------------|---------------------------|------------------------------|------------------------|
| Ī | O-Glucuronic Acid | None                      | None                      | None                         | None                   |

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available No information available Subsidiary Risk: No information available

Packing Group: None

**ERG No:** No information available

Marine Pollutant

DOT RQ (lbs):

No data available

No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available No information available **Subsidiary Risk: Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available No information available MFAG: **Maximum Quantity:** No information available

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#### 14. TRANSPORT INFORMATION

**RID** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:

No information available

**ICAO** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

#### 15. REGULATORY INFORMATION

#### **International Inventories**

| Components        | U.S. TSCA | KOREA KECL  | Philippines (PICCS) | Japan ENCS                  | CHINA   | Australia<br>(AICS) | EINECS-No.        |
|-------------------|-----------|-------------|---------------------|-----------------------------|---------|---------------------|-------------------|
| D-Glucuronic Acid | Present   | Not present | Not present         | Present (8)-<br>522 (9)-341 | Present | Not present         | Present 229-486-4 |

#### **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components        | Carcinogen | Developmental Toxicity | Male Reproductive | Female Reproductive |  |
|-------------------|------------|------------------------|-------------------|---------------------|--|
|                   |            |                        | Toxicity          | Toxicity:           |  |
| D-Glucuronic Acid | Not Listed | Not Listed             | Not Listed        | Not Listed          |  |

#### **CERCLA/SARA**

| Components        | CERCLA - Hazardous    | Section 302 Extremely | Section 302 Extremely | Section 313 -     | Section 313 - Reporting |
|-------------------|-----------------------|-----------------------|-----------------------|-------------------|-------------------------|
| -                 | Substances and their  | Hazardous             | Hazardous             | Chemical Category | de minimis              |
|                   | Reportable Quantities | Substances and TPQs   | Substances and RQs    |                   |                         |
| D-Glucuronic Acid | None                  | None                  | None                  | None              | None                    |

#### U.S. TSCA

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| •                 | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|-------------------|---|--|
| D-Glucuronic Acid | Not Applicable  | Not Applicable                         |

#### Canada

#### WHMIS hazard class:

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

| Components        | Canada (DSL) | Canada (NDSL) |
|-------------------|--------------|---------------|
| D-Glucuronic Acid | Not Listed   | Present       |

| Components        | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Manditory |  |
|-------------------|------------------------------------|---|--|
|                   |                                    | Reporting   |  |
| D-Glucuronic Acid | Not listed                         | Not listed  |  |

# **EU Classification**

# $\frac{\text{R-phrase(s)}}{\text{R-phrase(s)}}$

# S -phrase(s)

none

| Components        | Classification | Concentration Limits: | Safety Phrases |
|-------------------|----------------|-----------------------|----------------|
| D-Glucuronic Acid |                | No information        |                |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

None.

# **16. OTHER INFORMATION**

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# 16. OTHER INFORMATION

Revision Date: 04/09/2015
Prepared by: Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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