

# SAFETY DATA SHEET



Revision date: 11-Feb-2021

Revision Number 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

Product Name DIUTAN GUM

Product Code(s) 00000026511

### Other means of identification

CAS No. 595585-15-2

Chemical name D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt

Synonyms KELCO-CARE Diutan Gum

### Recommended use of the chemical and restrictions on use

Recommended use Personal care.

Uses advised against No information available.

### Details of the supplier of the safety data sheet

#### Supplier

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia  
Street Address: 166 Totara Street  
Mt Maunganui South  
New Zealand

Telephone Number: +64 9 309 2528

Facsimile: +64 9 0508 366 364

### For further information, please contact

Contact Point Product Safety Department

### Emergency telephone number

Emergency Telephone 0 800 734 607 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.

Based on available information, not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

### GHS Classification

**Label elements****Hazard statements****Other hazards which do not result in classification**

Dust can form an explosive mixture with air

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

| Chemical name  | CAS No.     | Weight-% |
|--|-------------|----------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt | 595585-15-2 | 100      |

**4. FIRST AID MEASURES****Description of first aid measures**

|                                   |   |
|-----------------------------------|---|
| <b>Emergency telephone number</b> | Poisons Information Center, New Zealand: 0800 764 766<br>Poisons Information Center, Australia: 13 11 26                      |
| <b>Inhalation</b>                 | Remove to fresh air. Call a physician if symptoms occur.  |
| <b>Eye contact</b>                | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.          |
| <b>Skin contact</b>               | Wash skin with soap and water. Call a physician if symptoms occur.  |
| <b>Ingestion</b>                  | Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur. |

**Most important symptoms and effects, both acute and delayed****Symptoms** No information available.**Indication of any immediate medical attention and special treatment needed****Note to physicians** Treat symptomatically.**5. FIRE FIGHTING MEASURES****Suitable Extinguishing Media****Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Unsuitable extinguishing media** No information available.**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** Combustible material. Dust can form an explosive mixture with air. Avoid generation of dust.

**Hazardous combustion products** Carbon oxides.

**Special protective actions for fire-fighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Avoid generation of dust. Ensure adequate ventilation. Do not touch or walk through spilled material. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Wash thoroughly after handling.

**For emergency responders** Use personal protection recommended in Section 8.

### **Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use only non-sparking tools.

### **Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid generation of dust. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take precautionary measures against static discharges.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from sources of heat or ignition. Keep container closed when not in use.

**Incompatible materials** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Limits** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulate(s):

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m<sup>3</sup> (inhalable dust) or 3 mg/m<sup>3</sup> (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Appropriate engineering controls**

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

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

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.



**Eye/face protection**

Glasses.

**Hand protection**

Impervious gloves.

**Skin and body protection**

Wear suitable protective clothing. Overalls. Antistatic boots.

**Respiratory protection**

If determined by a risk assessment an inhalation risk exists, wear a dust mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls**

No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                |                           |
|----------------|---------------------------|
| Physical state | Solid                     |
| Appearance     | Powder                    |
| Color          | White to Light Tan        |
| Odor           | Slight                    |
| Odor threshold | No information available. |

| <u>Property</u>                        | <u>Values</u>   | <u>Remarks • Method</u> |
|--|---|-------------------------|
| pH                                     | Neutral   | solution (1 %)          |
| Melting point / freezing point         | No data available   | None known              |
| Boiling point / boiling range          | No data available   | None known              |
| Flash point                            | No data available   | None known              |
| Evaporation rate                       | No data available   | None known              |
| Flammability (solid, gas)              | No data available   | None known              |
| Flammability Limit in Air              |   | None known              |
| Upper flammability or explosive limits | No data available   |                         |
| Lower flammability or explosive limits | No data available   |                         |
| Vapor pressure                         | No data available   | None known              |
| Vapor density                          | No data available   | None known              |
| Relative density                       | No data available   | None known              |
| Water solubility                       | No data available   | None known              |
| Solubility(ies)                        | Soluble in water  | None known              |
| Partition coefficient                  | No data available   | None known              |
| Autoignition temperature               | No data available   | None known              |
| Decomposition temperature              | approx. 448 ± 0.5 K without melting (OECD 101)<br>Relative self-ignition temperature of 351°C | None known              |
| Kinematic viscosity                    | No data available   | None known              |
| Dynamic viscosity                      | No data available   | None known              |

### Other information

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity No information available.

### Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### Conditions to avoid

Conditions to avoid Heat, flames and sparks. Dust formation.

**Incompatible materials**

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Information on likely routes of exposure**

**Product Information** No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.                       |
| <b>Eye contact</b>  | Dust contact with the eyes can lead to mechanical irritation.    |
| <b>Skin contact</b> | Prolonged or repeated contact may dry skin and cause irritation. |
| <b>Ingestion</b>    | Not an expected route of exposure.                               |

**Symptoms** No information available.

**Acute toxicity****Numerical measures of toxicity**

| Chemical name  | Oral LD50             | Dermal LD50 | Inhalation LC50       |
|--|-----------------------|-------------|-----------------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt | = >5000 mg/kg ( Rat ) | -           | = >5 mg/L ( Rat ) 4 h |

See section 16 for terms and abbreviations

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

**Skin corrosion/irritation** No information available.

| Component Information  |              |
|--|--------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt (595585-15-2) |              |
| Method   | OECD 404     |
| Species  | Rabbit       |
| Results  | non-irritant |

**Serious eye damage/eye irritation** No information available.

| Component Information  |              |
|--|--------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt (595585-15-2) |              |
| Method   | OECD 405     |
| Species  | Rabbit       |
| Results  | non-irritant |

| Component Information  |                       |
|--|-----------------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt (595585-15-2) |                       |
| Method   | OECD 406              |
| Species  | Guinea pig            |
| Results  | Not a skin sensitizer |

**Germ cell mutagenicity** No information available.

| Component Information  |                            |
|--|----------------------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt (595585-15-2) |                            |
| Method   | OECD 471                   |
| Results  | Not mutagenic in AMES Test |

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity** Keep out of waterways.

**Terrestrial ecotoxicity** There is no data for this product.

| Chemical name  | Algae/aquatic plants                           | Fish                                 | Crustacea                            |
|--|--|--------------------------------------|--------------------------------------|
| D-Glucurono-D-gluco-6-deoxy-L-mannan, acetate, calcium magnesium potassium sodium salt | EC50: >100 mg/L (72h, Scenedesmus subspicatus) | LC50: >100 mg/L (96h, Rainbow trout) | EC50: >100 mg/L (48h, Daphnia magna) |

### Persistence and degradability

**Persistence and degradability** Readily biodegradable.

### Bioaccumulative potential

**Bioaccumulation** No information available.

### Mobility

**Mobility in soil** No information available.

### Other adverse effects

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|  |  |
|--|--|
| <b>Waste from residues/unused products</b> | Landfill or incineration in accordance with local, state and federal regulations.              |
| <b>Contaminated packaging</b>              | Empty containers should be taken to an approved waste handling site for recycling or disposal. |

### 14. TRANSPORT INFORMATION

|                                       |  |
|---------------------------------------|--|
| <b><u>ROAD AND RAIL TRANSPORT</u></b> | Not classified as a Dangerous Good under NZS 5433:2012 Transport of Dangerous Goods on Land.   |
| <b><u>IATA</u></b>                    | Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS. |
| <b><u>IMDG</u></b>                    | Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.                    |

### 15. REGULATORY INFORMATION

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

##### New Zealand

**National regulations** See section 8 for national exposure control parameters

#### International Inventories

|                      |  |
|----------------------|--|
| <b>NZIoC</b>         | This material is listed on the New Zealand Inventory of Chemicals. |
| <b>TSCA</b>          | Contact supplier for inventory compliance status.                  |
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status.                  |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status.                  |
| <b>ENCS</b>          | Contact supplier for inventory compliance status.                  |
| <b>IECSC</b>         | Contact supplier for inventory compliance status.                  |
| <b>KECL</b>          | Contact supplier for inventory compliance status.                  |
| <b>PICCS</b>         | Contact supplier for inventory compliance status.                  |
| <b>AICS</b>          | Contact supplier for inventory compliance status.                  |

#### **Legend:**

- NZIoC** - New Zealand Inventory of Chemicals
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- Australian Inventory of Industrial Chemicals**

#### International Regulations



**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## 16. OTHER INFORMATION

Supplier Safety Data Sheet; 10/ 2019  
KELCO-CARE is a trademark.

**Prepared By** This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

**Issuing Date:** 11-Feb-2021

**Reason(s) For Issue:** First Issue Primary SDS

### Revision Note:

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| C       | Carcinogen                  |      |                                  |

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

### Disclaimer

**This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.**

**If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom**

Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.

**End of Safety Data Sheet**