

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product name**

Sugar Royal

**Product code**

[v.1.2], A31122, A30186, A30187, A30188, A31309, A31326, A31857

<https://my.chemius.net/p/yA3Sr1/en/pd/en>

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**

Fertiliser.

**Uses advised against**

Do not use for purposes other than those prescribed.

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

**Supplier**

Bertels B.V.  
Ommelpad 2  
6035 PC Ospel, The Netherlands  
31 (0)495 63 15 59  
info@bertelsholland.com

### 1.4 Emergency Telephone Number

**Emergency**

111

**Supplier**

31 (0)495 63 15 59

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

According to the regulation, the chemical is not classified as hazardous.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

Not subject to labelling according to Regulation (EC) 1272/2008.

### 2.3 Other hazards

**PBT/vPvB**

The substances in the product are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**Endocrine disrupting properties**

The mixture does not contain substance(s) included in the list established in accordance with Article 59 of REACH for having endocrine disrupting properties, or substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Additional information**

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances  
For mixtures see 3.2.
- 3.2 Mixtures  
The product does not contain dangerous substances or ingredients, which would need to be declared on the safety data sheet.

SECTION 4: FIRST AID MEASURES

- 4.1 Description of first aid measures  
**General notes**  
Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing with water before removing or use gloves.  
**Following inhalation**  
Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. Seek medical help immediately.  
**Following skin contact**  
If symptoms develop and persist, seek medical attention.  
**Following eye contact**  
Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.  
**Following ingestion**  
Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.
- 4.2 Most important symptoms and effects, both acute and delayed  
**Following inhalation**  
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.  
**Following skin contact**  
Contact with skin may cause irritation (redness, itching). May cause sensitisation by skin contact (itching, redness, rashes).  
**Following eye contact**  
Contact with eyes can cause irritation (redness, tearing, pain).  
**Following ingestion**  
May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.
- 4.3 Indication of any immediate medical attention and special treatment needed  
Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media  
**Suitable extinguishing media**  
Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Product itself is not flammable.  
**Unsuitable extinguishing media**  
Full water jet.
- 5.2 Special hazards arising from the substance or mixture  
**Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Small amounts <1L: dilute with water, then clean with a sponge or collect using absorbent, inert material, and collect in an appropriate container. Clean contaminated area with plenty of water. Prevent release into the sewer, water, basements or confined areas.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

The usual measures for preventive fire protection.

Measures to prevent aerosol and dust generation

Ensure adequate ventilation.

Measures to protect the environment

Avoid release to the environment.

Other measures

<div>No information.</div> <div><b>Advice on general occupational hygiene</b></div> <div>Keep out of reach of children. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse.</div>
<div>7.2 Conditions for safe storage, including any incompatibilities</div> <div><b>Technical measures and storage conditions</b></div> <div>Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.</div> <div><b>Packaging materials</b></div> <div>Store only in original container.</div> <div><b>Requirements for storage rooms and vessels</b></div> <div>Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.</div> <div><b>Storage temperature</b></div> <div>0 - 35 °C</div> <div><b>Storage class</b></div> <div>No information.</div> <div><b>Further information on storage conditions</b></div> <div>No information.</div>
<div>7.3 Specific end use(s)</div> <div><b>Recommendations</b></div> <div>See identified uses in Section 1.2.</div> <div><b>Industrial sector specific solutions</b></div> <div>No information.</div>

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<div>8.1 Control parameters</div> <div><b>Occupational Exposure limit values</b></div> <div>No information.</div> <div><b>Information on monitoring procedures</b></div> <div>BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.</div> <div><b>DNEL/DMEL values</b></div> <div><b>For product</b></div> <div>No information.</div> <div><b>For components</b></div> <div>No information.</div> <div><b>PNEC values</b></div> <div><b>For product</b></div> <div>No information.</div> <div><b>For components</b></div> <div>No information.</div>
<div>8.2 Exposure controls</div> <div><b>Appropriate engineering control</b></div> <div><b>Substance/mixture related measures to prevent exposure during identified uses</b></div> <div>Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.</div> <div><b>Structural measures to prevent exposure</b></div>

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

Keep away from food, drink and animal feeding stuffs.

**Personal protective equipment**

**Eye and face protection**

No requirements under normal use conditions. If there is risk of splashing into eyes, wear safety glasses with side shields (BS EN ISO 16321-1:2022).

**Hand protection**

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

**Appropriate materials**

**Skin protection**

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

**Respiratory protection**

Not needed under normal use and adequate ventilation.

**Thermal hazards**

No information.

**Environmental exposure controls**

**Substance/mixture related measures to prevent exposure**

The product is not classified as dangerous for the environment.

**Instruction measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

**Important health, safety and environmental information**

Physical state	liquid
Shape	No information.
Colour	yellow orange
Odour	characteristic
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	4.2 — 4.8 at 20 °C, conc. 100 %
Viscosity	No information.

Solubility (Water)	Completely soluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density	1.2 — 1.26 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

**Information with regard to physical hazard classes**

No information.

**Other safety characteristics**

No information.

## SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity
- The product is not reactive under normal conditions of use, storage and transport.
- 10.2 Chemical stability
- Product is stable under normal conditions of use, recommended handling and storage conditions.
- 10.3 Possibility of hazardous reactions
- There are no known hazardous reactions.
- 10.4 Conditions to avoid
- No special precautions required. Consider the directions for use and storage.
- 10.5 Incompatible materials
- No information.
- 10.6 Hazardous decomposition products
- Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- (a) Acute toxicity**
- No information.
- Additional information**
- The product is not classified as acutely toxic.
- (b) Skin corrosion/irritation**
- No information.
- Additional information**
- The product is not classified as irritating to the skin.
- (c) Serious eye damage/irritation**
- No information.
- Additional information**
- The product is not classified as an irritant to the eyes.
- (d) Respiratory or skin sensitisation**
- No information.

**Additional information**

The product is not classified as sensitising.

**(e) (Germ cell) mutagenicity**

No information.

**(f) Carcinogenicity**

No information.

**(g) Reproductive toxicity**

No information.

**Summary of evaluation of the CMR properties**

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

**(h) STOT-single exposure**

No information.

**Additional information**

STOT SE (single exposure): Not classified.

**(i) STOT-repeated exposure**

No information.

**Additional information**

STOT RE (repeated exposure): Not classified.

**(j) Aspiration hazard**

No information.

**Additional information**

Aspiration hazard: Not classified.

**Symptoms related to the physical, chemical and toxicological characteristics**

No information.

**Interactive effects**

No information.

11.2 Information on other hazards

**Endocrine disrupting properties**

**For product**

The product does not contain substances with the potential for endocrine disorders.

**Other information**

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

**Acute (short-term) toxicity**

No information.

**Chronic (long-term) toxicity**

No information.

12.2 Persistence and degradability

**Abiotic degradation, physical- and photo-chemical elimination**

No information.

**Biodegradation**

No information.

12.3 Bioaccumulative potential

**Partition coefficient n-octanol/water (log value)**

No information.

**Bioconcentration factor (BCF)**

No information.

**Additional information**

No bioaccumulation potential.

12.4 Mobility in soil

**Known or predicted distribution to environmental compartments**

No information.

**Surface tension**

No information.

**Adsorption/Desorption**

No information.

12.5 Results of PBT and vPvB assessment

The components in this product do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties

**For product**

The mixture does not contain substance(s) included in the list established in accordance with Article 59 of REACH for having endocrine disrupting properties, or substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

No information.

12.8 Additional information

**For product**

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

**Product / Packaging disposal**

**Waste chemical**

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

**Waste codes / waste designations according to LoW**

02 01 09 - agrochemical waste other than those mentioned in 02 01 08

**Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

**Waste codes / waste designations according to LoW**

15 01 02 - plastic packaging

**Waste treatment-relevant information**

No information.

**Sewage disposal-relevant information**

No information.

**Other disposal recommendations**

No information.



SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable
Ingredients according to Regulation (EC) No 648/2004 on detergents No information.
Special instructions No information.
15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Indication of changes No information.
Key literature references and sources for data No information.
Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet

SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

**List of relevant H phrases**

No information.