SAFETY DATA SHEET

Revision Date 10.04.2018 Version 1.0

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1-1 Product identifier

Catalogue No. GA3-101
Product name Gibberellic Acid Technical Grade
Reach Registration Number A registration number is not available for this substance as the Substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1-2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical for synthesis
For additional information on uses please refer to the Xyten Chemicals webpage (www.xyten.com)

1-3 Details of the supplier of the safety data sheet

Company Xyten Ltd 111 Newton Rd, Eden Terrace, Auckland 1010
New Zealand
Phone: 09 363 2004
e-mail: info@xyten.com

1-4 Emergency telephone number Please contact the regional company representation in your country

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture
This substance is not classified as dangerous according to European Union legislation.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008) Not a dangerous substance according to GHS
Labelling (67/548/EEC or 1999/45/EC) The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards
None known.

SECTION 3. Composition/information on ingredients

Formula C_{19}H_{22}O_{6} (Hill)
CAS-No. 77-06-5

The Safety Data Sheets for catalogue items are available at www.xyten.com
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(Catalogue No. GA3-101) Product name: Gibberellic Acid Technical Grade

EC-No. 201-001-0
Molar mass 346.37 g/mol

SECTION 4. First aid measures
4.1 Description of first aid measures
After inhalation: fresh air.
After skin contact: wash off with plenty of water. Remove contaminated clothing.
After eye contact: rinse out with plenty of water.
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed
We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed
No information available.

SECTION 5. Fire-fighting measures
5.1 Extinguishing method
Suitable extinguishing product
Water, Carbon dioxide (CO₂), Dry powder, Foam
Unsuitable extinguishing product
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Combustible material, Development of hazardous combustion gases or vapors possible in the event of fire.

5.3 Advice for firefighters
Special protective equipment for fire-fighters
In the event of fire, wear self-contained breathing apparatus.
Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions
Do not empty into drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7.2 and 10.5).
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
Indications about waste treatment see section 13.
according to Regulation (EC) No. 1907/2006
Catalogue No. GA3-101

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Product name Gibberellic Acid Technical Grade

SECTION 7. Handling and storage
7.1 Precautions for safe handling
Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities
Tightly closed. Dry.
Store at +15°C to +25°C.

7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection
8.1 Control parameters

8.2 Exposure controls
Engineering measures
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures
Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.
Eye/face protection Safety glasses

Hand protection
full contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

splash contact:
Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

Respiratory protection
required when dusts are generated.
Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls
Do not empty into drains.

The Safety Data Sheets for catalogue items are available at www.xyten.com
SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Solid Powder
Color: white
Odour: Odourless
Odour Threshold: No information available.
pH: No information available.
Melting Point: 233 - 235 °C
Boiling point: No information available.
Flash point: No information available.
Evaporation rate: No information available.
Flammability (solid, gas): No information available.
Lower explosion limit: No information available.
Upper explosion limit: No information available.
Vapour pressure: No information available.
Relative vapour density: No information available.
Relative density: 1,34 g/cm³ at 20 °C
Solubility(ies) Solvent: Ethanol 125 g/l at 25 °C
Water solubility: 5 g/l at 25 °C
Partition coefficient: log Pow: 0,24
n-octanol/water: (experimental)

Auto ignition temperature: No information available.
Decomposition temperature: > 234 °C
Viscosity, dynamic: No information available.
Explosive properties: No information available.
Oxidizing properties: No information available.

9.2 Other data

None

SECTION 10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions
no information available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
no information available

10.6 Hazardous decomposition products
no information available

SECTION 11. Toxicological information
11.1 Information on toxicological effects
Acute oral toxicity
LD50 rat: 6.300 mg/kg (RTECS)

Acute dermal toxicity
LD50 rabbit: > 2.000 mg/kg (RTECS)
Genotoxicity in vitro Ames test
Salmonella typhimurium
Result: negative
(National Toxicology Program)
Specific target organ toxicity - single exposure
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration hazard
Based on available data the classification criteria are not met.

11.2 Further information
Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.
Further data:
Substances which occur in nature
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information
12.1 Toxicity
No information available.
12.2 Persistence and degradability
No information available.
12.3 Bioaccumulative potential
Partition coefficient: n-octanol/water
log Pow: 0,24 (experimental)
Bioaccumulation is not expected. (Lit.)
12.4 Mobility in soil
No information available.
12.5 Results of PBT and vPvB assessment
PBT/PvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Additional ecological information
Discharge into the environment must be avoided.

**SECTION 13. Disposal considerations**

Waste treatment methods
See [www.xyten.com](http://www.xyten.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**SECTION 14. Transport information**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. Regulatory information**

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

*EU regulations*
Major Accident Hazard 96/82/EC
Legislation Directive 96/82/EC does not apply
Storage class 10 - 13

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.
The Safety Data Sheets for catalogue items are available at [www.xyten.com](http://www.xyten.com)

**SECTION 16. Other Information**

Training advice
Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet
Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Regional representation
This information is given on the authorized Safety Data Sheet for your country. The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.