



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

1.1. Product identifier

Trade name : **GibGro 20% TB**

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

Use : Plant protection agent

1.3. Details of the supplier of the safety data sheet

Nufarm GmbH & Co KG
St.-Peter-Str. 25
A-4021 Linz
Austria
Telephone: +43/732/6918-3187
Telefax: +43/732/6918-63187
E-mail address: Katharina.Krueger@at.nufarm.com

1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EG_1272/08 : - - - The product is not subject to classification according to GHS criteria.

2.2. Label elements

REGULATION (EC) No 1272/2008

Pictogram:

-

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

P405 - Store locked up.
P102 - Keep out of reach of children.



- P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P391 - Collect spillage.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Components:

Gibberellic Acid

CAS-No.: 77-06-5
EINECS-No. / ELINCS No.: 201-001-0
REACH No.:
Concentration: 20,0 % (w/w)

Classification:

EG_1272/08 : - n.c. - This chemical substance is not classified in the Annex VI of Regulation (EC) No 1272/2008.

Citric acid

CAS-No.: 77-92-9
EINECS-No. / ELINCS No.: 201-069-1
REACH No.: 01-2119457026-42
Concentration: 12,0% - 15,0% (w/w)

Classification:

EG_1272/08 : EyeIrrit.2 H319 - Causes serious eye irritation.

sodium benzoate

CAS-No.: 532-32-1
EINECS-No. / ELINCS No.: 208-534-8
REACH No.: 01-2119460683-35
Concentration: 2,0% - 5,0% (w/w)

Classification:

EG_1272/08 : EyeIrrit.2A H319 - Causes serious eye irritation.

SECTION 4: FIRST AID MEASURES



4.1. Description of first aid measures

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
- Ingestion : Drink 1 or 2 glasses of water. Do NOT induce vomiting. Call a physician immediately.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In the event of fire (CO_x) may be formed.

5.3. Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.



6.3. Methods and materials for containment and cleaning up

- Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Additional advice : Never return spills in original containers for re-use.

6.4. Reference to other sections

see Chapter 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Safe handling advice : Wear personal protective equipment. Keep out of the reach of children.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Advice on common storage : Keep away from food, drink and animal feeding stuffs.
- German storage class : 13/11 (Non combustible solids; Packaging possibly combustible)

Storage stability

- Storage temperature : 0 - 30 °C

7.3. Specific end use(s)

none

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

Components	CAS-No.	National occupational exposure limits	Note
Gibberellic Acid	77-06-5		no classification available
Citric acid	77-92-9		no classification available
sodium benzoate	532-32-1		no classification available



8.2. Exposure controls

Personal protective equipment

- Respiratory protection : Breathing apparatus only if aerosol or dust is formed.
Respiratory protection complying with EN 143.
- Hand protection : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
- Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)
- Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
- Protective measures : The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

- Physical state : solid
Form : tablet
Colour : white
Odour : none
- Melting point/range : 235 °C
- Boiling point/boiling range : not applicable
- Flash point : not applicable



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

GibGro 20% TB

Version 6 (Georgia)

Issuing date: 2016/05/10

Ignition temperature	:	not applicable
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	1,49 g/cm ³
Bulk density	:	692 kg/m ³
pH	:	6,4 at 10 g/l
Partition coefficient: n-octanol/water	:	no data available
Dissociation constant	:	no data available
Viscosity, dynamic	:	no data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Explosive properties	:	Not explosive

9.2. Other information

none

SECTION 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

Strong heating up

10.5. Incompatible materials to avoid

Strong acids

10.6. Hazardous decomposition products

no data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity	:	LD50 rat Dose: > 5.000 mg/kg
Acute dermal toxicity	:	LD50 rat Dose: > 2.000 mg/kg
Acute inhalation toxicity	:	LC50 rat Dose: > 0,502 mg/l
Skin irritation	:	rabbit Result: No skin irritation
Eye irritation	:	rabbit Result: No eye irritation
Sensitisation	:	guinea pig Result: Did not cause sensitization.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity



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- Toxicity to bees : Not toxic to bees.
- Toxicity to fish : semi-static test LC50 *Cyprinus carpio* (Carp)
Dose: > 100 mg/l
Testing period: 96 h
Test substance: GibGro technical
- Toxicity to aquatic invertebrates : static test EC50 *Daphnia magna* (Water flea)
Dose: 76 mg/l
Testing period: 48 h
Test substance: GibGro technical
- Toxicity to algae : EC50 *Pseudokirchneriella subcapitata* (green algae)
Dose: 17 mg/l
Exposure time: 72 h
Test substance: GibGro technical

12.2. Persistence and degradability

- Biodegradability : no data available

12.3. Potential bioaccumulation

- Bioaccumulation : no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

none

SECTION 13: DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 09 (agrochemical waste other than those mentioned in 02 01 08)



13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

14.2. Proper shipping name

not applicable

14.3. Transport hazard class(es)

ADR/RID :

Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.

IMDG :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not a dangerous substance as defined in the above regulations.

14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

none



SECTION 15: REGULATORY INFORMATION

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

15.2. Chemical Safety Assessment

none

SECTION 16: OTHER INFORMATION

Print Date : 2016/05/10

The date format YYYY/MM/DD is used according to ISO 8601.
(Alterations are indicated in the left hand margin by: ||)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Contact person

Company : Nufarm GmbH & Co KG
K. Krüger
St.-Peter-Str. 25
A-4021 Linz
Austria

Telephone : +43/732/6918-3187
Telefax : +43/732/6918-63187
E-mail address : Katharina.Krueger@at.nufarm.com

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