

## Safety data sheet

Page: 1/17

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

## **Torres**

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

Relevant identified uses: crop protection product, herbicide

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

Company: BASF SE 67056 Ludwigshafen GERMANY Contact address:
BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

## 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

## **SECTION 2: Hazards Identification**

## 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Repr. 2 H361d Suspected of damaging the unborn child.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

#### 2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

#### Pictogram:





## Signal Word: Warning

Hazard Statement:

H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

**Precautionary Statement:** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

Precautionary Statements (Response):

P308 + P313 IF exposed or concerned: Get medical attention.

P391 Collect spillage.

Precautionary Statements (Storage): P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to a licensed hazardous-waste disposal

contractor or collection site except for empty clean containers which can

be disposed of as non-hazardous waste.

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Labeling of special preparations (GHS):

EUH208: May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one

Hazard determining component(s) for labelling: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine

#### 2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## **SECTION 3: Composition/Information on Ingredients**

## 3.1. Substances

Not applicable

## 3.2. Mixtures

#### Chemical nature

crop protection product, herbicide, suspension concentrate (SC)

Hazardous ingredients (GHS)

pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine

Content (W/W): 36.17 % Repr. 2 (unborn child)
CAS Number: 40487-42-1 Aquatic Acute 1
EC-Number: 254-938-2 Aquatic Chronic 1
INDEX-Number: 609-042-00-X M-factor acute: 100
M-factor chronic: 10
H361d, H400, H410

Alcohols, C9-11, ethoxylated

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Content (W/W): < 10 % Eye Dam./Irrit. 1

CAS Number: 68439-46-3 H318

1,2-benzisothiazol-3(2H)-one

Content (W/W): < 0.05 %

CAS Number: 2634-33-5

EC-Number: 220-120-9

REACH registration number: 012120761540-60

INDEX-Number: 613-088-00-6

Acute Tox. 4 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
Skin Sens. 1
Aquatic Acute 1
Aquatic Chronic 1

r: 613-088-00-6 Aquatic Chronic 1
M-factor acute: 1
M-factor chronic: 1

H318, H315, H302, H317, H400, H410

Specific concentration limit: Skin Sens. 1: >= 0.05 %

Propane-1,2-diol

Content (W/W): < 10 % CAS Number: 57-55-6 EC-Number: 200-338-0

REACH registration number: 01-

2119456809-23

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

## 4.1. Description of first aid measures

Show container, label and/or safety data sheet to physician.

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

## 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

## 5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, silica compounds, halogenated compounds, sulfur oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

#### 5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

#### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

## **SECTION 6: Accidental Release Measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

## 6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **SECTION 7: Handling and Storage**

## 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: -5 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 35 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## **SECTION 8: Exposure Controls/Personal Protection**

## 8.1. Control parameters

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

TWA value 474 mg/m3 ; 150 ppm (WEL/EH 40 (UK)), Total vapour and

particulates

TWA value 10 mg/m3 (WEL/EH 40 (UK)), Particulate

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Refer to the current edition of HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom). For normal use and handling refer to the product label/leaflet.

## 8.2. Exposure controls

## Personal protective equipment

## Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

## Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### 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).

## General safety and hygiene 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

Form: liquid Colour: orange Odour: flowery

Odour threshold:

Not determined due to potential health hazard by inhalation.

pH value: approx. 6.5 - 8.5

(22 °C)

Melting point: < -20 °C

Boiling point: approx. 100 °C

Information applies to the solvent.

Flash point:

No flash point - Measurement made

up to the boiling point.

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Evaporation rate:

not applicable

Flammability:

not applicable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use. approx. 385 °C

Ignition temperature: Vapour pressure:

approx. 23.4 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1.10 g/cm3

(20 °C)

Relative vapour density (air):

not applicable

Solubility in water: dispersible

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Thermal decomposition: 190 °C, 1,440 kJ/kg, (DSC (OECD 113))

(onset temperature)

Not a substance liable to self-decomposition according to UN transport

regulations, class 4.1.

Viscosity, dynamic: approx. 146 mPa.s

(100 1/s)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

SADT: > 75 °C

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

## **SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

## 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

## 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## **SECTION 11: Toxicological Information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 5.02 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)

No mortality was observed.

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant

Serious eye damage/irritation

rabbit: non-irritant

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

## Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

modified Buehler test guinea pig: Non-sensitizing.

## Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine Assessment of carcinogenicity:

In long-term studies in rats the substance induced thyroid tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

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#### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

## **Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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## Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine Assessment of repeated dose toxicity:

No substance-specific organtoxicity was observed after repeated administration to animals. Adaptive effects were observed after repeated exposure in animal studies.

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#### **Aspiration hazard**

The product has not been tested. The statement has been derived from the properties of the individual components.

No aspiration hazard expected.

## Other relevant toxicity information

Misuse can be harmful to health.

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h) 0.5 mg/l, Oncorhynchus mykiss

Aquatic invertebrates:

EC50 (48 h) 25 mg/l, Daphnia magna

Aquatic plants:

EC50 (72 h) 0.158 mg/l (growth rate), Pseudokirchneriella subcapitata

EC10 (72 h) 0.0176 mg/l (growth rate), Pseudokirchneriella subcapitata

EC50 (7 d) 0.0624 mg/l (growth rate), Lemna gibba

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

EC10 (7 d) 0.0066 mg/l (growth rate), Lemna gibba

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine Bioaccumulation potential:

Bioconcentration factor (BCF): 3,300

Based on a weight of evidence, the compound will not bioaccumulate.

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## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pendimethalin (ISO); N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine

Assessment transport between environmental compartments:

Volatility: The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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#### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date previous version: 02.09.2019

Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

#### 12.7. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## **SECTION 14: Transport Information**

#### **Land transport**

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PENDIMETHALIN)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for

user: None known

**RID** 

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PENDIMETHALIN)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for None known

user:

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

## **Inland waterway transport**

ADN

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PENDIMETHALIN)

Transport hazard class(es): 9. EHSM

Packing group: Ш Environmental hazards: ves

Special precautions for None known

user:

## Transport in inland waterway vessel

Not evaluated

## Sea transport

**IMDG** 

UN number or ID number: UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, UN proper shipping name:

N.O.S. (contains PENDIMETHALIN)

Transport hazard class(es): 9, EHSM

Packing group: Ш Environmental hazards: yes

Marine pollutant: YES

Special precautions for

user:

## Air transport

IATA/ICAO

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PENDIMETHALIN)

Transport hazard class(es): 9, EHSM Packing group: Ш Environmental hazards: ves

Special precautions for

None known

user:

## 14.1. UN number or ID number

time to time.

Date / Revised: 30.05.2023 Version: 7.0

Date previous version: 02.09.2019 Previous version: 6.0 Date / First version: 03.11.2010

Product: Torres

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

## 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

## 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

## 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

## 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

## **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

## **SECTION 15: Regulatory Information**

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

This product is classified under the European CLP Regulation.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

time to time.

Date / Revised: 30.05.2023 Version: 7.0
Date previous version: 02.09.2019 Previous version: 6.0

Date / First version: 03.11.2010

Product: **Torres** 

(ID no. 30730963/SDS\_CPA\_GB/EN)

Date of print 31.05.2023

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

## 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

#### **SECTION 16: Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Repr. Reproductive toxicity

Aquatic Acute Hazardous to the aquatic environment - acute
Aquatic Chronic Hazardous to the aquatic environment - chronic

Eye Dam./Irrit. Serious eye damage/eye irritation

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation
Skin Sens. Skin sensitization

H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

Page: 17/17

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

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Vertical lines in the left hand margin indicate an amendment from the previous version.