according to 1907/2006/EC, Article 31

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

· 1.1 Product identifier

· Trade name: Clopidogrel bisulfate

- · Article number: 105000
- · CAS Number:
- 120202-66-6
- EC number:

686-767-8

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture Additive for cosmetic or pharmaceutic preparations
- **1.3 Details of the supplier of the safety data sheet** Fagron UK Ltd 4B Coquet St Newcastle upon Tyne England NE1 2QB Tel. 0845 6522525
- · Further information obtainable from:

Emergency response telephone number: +44 (0) 845 652 2525 • **1.4 Emergency telephone number:** 

Emergency response telephone number: +44 (0) 845 652 2525

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

H362 May cause harm to breast-fed children.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

### · 2.2 Label elements

Lact.

### · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation. • Hazard pictograms



· Signal word Danger

• Hazard statements H314 Causes severe skin burns and eye damage. H362 May cause harm to breast-fed children. H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary sta	itements
P263	Avoid contact during pregnancy and while nursing.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.
2.3 Other hazards	
Poculto of DBT or	ad vBvB accomment

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- CAS: 120202-66-6 Clopidogrel bisulfate
- · Identification number(s)
- · EC number: 686-767-8

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Seek medical treatment.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

### · Suitable extinguishing agents:

Carbon dioxide Fire-extinguishing powder Water spray Use fire extinguishing methods suitable to surrounding conditions. • **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx)

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### Trade name: Clopidogrel bisulfate (Contd. of page 2) Formation of toxic gases is possible during heating or in case of fire. 5.3 Advice for firefighters Protective equipment: Wear fully protective suit. Wear self-contained respiratory protective device. SECTION 6: Accidental release measures · 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. · 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Use neutralising agent. Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. Dispose of the material collected according to regulations. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Prevent formation of dust.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

• 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

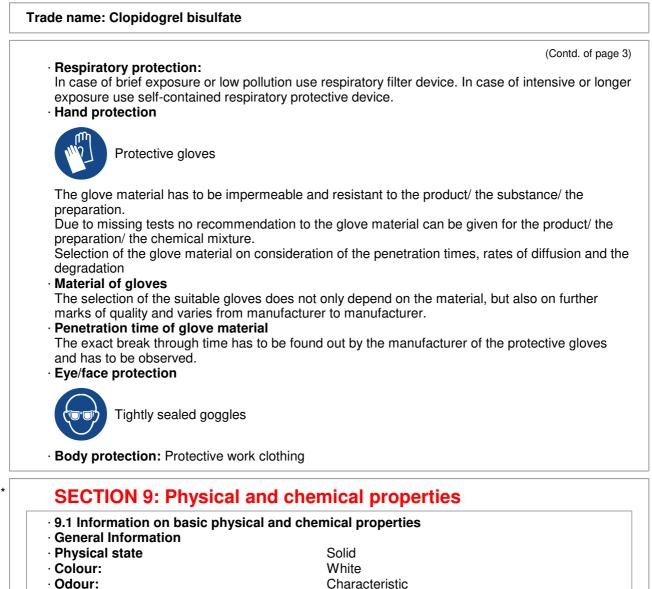
Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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Not determined.

Undetermined.

Not determined.

Not determined.

Not applicable.

Not determined.

Not applicable.

Not applicable.

Not applicable.

Not determined.

Not determined.

Not applicable.

Product is not flammable.

178°C

- · Odour: · Odour threshold: • Melting point/freezing point: · Boiling point or initial boiling point and boiling range · Flammability · Lower and upper explosion limit · Lower: · Upper: · Flash point: · Decomposition temperature: · pH · Viscosity: · Kinematic viscosity · Dynamic: · Solubility
- water:
  Partition coefficient n-octanol/water (log
- value) · Vapour pressure:

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Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Crystalline powder
Important information on protection of	
health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazar	rd
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Carbon monoxide and carbon dioxide
- Nitrogen oxides (NOx)

Sulphur oxides (SOx)

Poisonous gases/vapours

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### **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

#### · LD/LC50 values relevant for classification:

- Oral LD50 >2000 mg/kg (rat)
- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Reproductive toxicity May cause harm to breast-fed children.
- · STOT-single exposure May cause respiratory irritation.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

- EC50 (48h) 8.3 mg/l (daphnia)
- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Toxic for aquatic organisms

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

# SECTION 14: Transport information

14.1 UN number or ID number

· ADR, IMDG, IATA

UN1759

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de name: Clopidogrel bisulfate	
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14.2 UN proper shipping name ADR IMDG	not regulated CORROSIVE SOLID, N.O.S. (Clopidogrel bisulfate)
ΙΑΤΑ	Corrosive solid, n.o.s. (Clopidogrel bisulfate)
14.3 Transport hazard class(es)	
ADR	
Class Label	8 Corrosive substances. 8
IMDG, IATA	8 Corrosive substances.
Label	8 Corrosive substances.
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Special marking (ADR):	Environmentally hazardous substance, solid Symbol (fish and tree)
14.6 Special precautions for user Hazard identification number (Kemler code): EmS Number: Stowage Category	Warning: Corrosive substances. 80 F-A,S-B A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5 kg Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 100 g 3 E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 100 g

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· UN "Model Regulation":

#### not regulated

# **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Qualifying guantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Department issuing SDS:

Fagron UK

- Quality Assurance
- **Contact:** quality@fagron.co.uk
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1B: Skin corrosion/irritation – Category 1B Lact: Reproductive toxicity – effects on or via lactation STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 • \* Data compared to the previous version altered.



GB

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