

according to Regulation (EC) No. 1907/2006 (REACH)

# Flock cartridge

Version number: GHS 8.0 (2023-12-14) Replaces version: GHS 7 (2023-03-20)

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

#### 1.1 **Product identifier**

Trade name Flock cartridge

Identification of the substance Aluminium sulphate, hexadecahydrate

CAS number 16828-11-8

01-2119531538-36-xxxx Registration number (REACH)

SDS-Ref 07540

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

> Relevant identified uses Flocculant Professional use

Consumer use (private households)

Details of the supplier of the safety data sheet Steinbach International GmbH 1.3

L. Steinbach Platz 1 4311 Schwertberg

Austria

Telephone: +43 7262 61431 1000 e-Mail: info@steinbach-group.com

e-Mail (competent person): sdb@steinbach-group.com

#### 1.4 **Emergency telephone number**

Country	Name	Postal code/city	Telephone	Opening hours
Austria	Vergiftungsinformationszentrale	1090 Wien	+43 1 406 4343 (24h)	
Ireland	National Poisons Information Centre	Dublin 9	+353 1 809 2166 / 2566 (24h)	

# SECTION 2: Hazards identification

#### Classification of the substance or mixture 2.1

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

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word Danger

- Pictograms

GHS05



- Hazard statements

H318 Causes serious eye damage.

- Precautionary statements

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

P102 Keep out of reach of children.

P280 Wear eye protection/face protection.

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.

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- Precautionary statements

P501

Dispose of contents/container to hazardous or special waste collection point.

#### 2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Name of substance Aluminium sulphate, hexadecahydrate

CAS No 16828-11-8 EC No 605-511-8

REACH Reg. No 01-2119531538-36-xxxx

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

#### Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms and effects are not known to date.

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

None.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

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## 5.2 Special hazards arising from the substance or mixture

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

## 6.2 Environmental precautions

Not required. Disposal considerations: see section 13.

# 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

# 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

Control of effects

- Protect against external exposure, such as

High temperatures, Frost, Humidity, UV-radiation/sunlight

- Ventilation requirements

Use local and general ventilation.

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#### Packaging compatibilities

Professional use: Keep only in the original container. Consumer use (private households): Keep only in original container.

#### Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

# 7.3 Specific end use(s)

There is no additional information.

# SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits) Name of agent **CAS No TWA** STEL Nota-Sourc Coun lden-TWA STEL Ceil-Ceiling-C [mg/ m³] ing-C tifier [mg/ m³] try [ppm] tion [ppm] е [mg/ m³] [ppm] ΙE dusts, non-specific **OELV** 10 S.I. No. 619 of 2001 ΙE dusts, non-specific **OELV** 4 S.I. No. 619 of

## Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

i inhalable fraction respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise spe-

cified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (un-

2001

less otherwise specified)

### Human health values

### Relevant DNELs and other threshold levels

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	13.4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	3.8 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	3.3 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
DNEL	1.9 mg/kg bw/ day	human, oral	consumer (private households)	chronic - systemic effects

# 8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection (EN 166).

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### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection

Particulate filter device (EN 143).

In case of inadequate ventilation wear respiratory protection: Full face mask (DIN EN 136).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	odourless
Melting point/freezing point	770 °C
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
pH (value)	$2.5-4$ (in aqueous solution: 1 % ( $^{\text{W}}/_{\text{w}}$ ), 20 °C)
Kinematic viscosity	not relevant
Particle characteristics	no data available
Oxidising properties	none
Vapour pressure	
Vapour pressure	not determined
Density and/or relative density	
Density	2.71 g/ <sub>cm³</sub> at 20 °C
Relative vapour density	information on this property is not available
Other safety parameters Solubility(ies)	
Water solubility	360 <sup>g</sup> / <sub>I</sub> at 20 °C

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Partition coefficient

n-Octanol/water (log KOW) <3

### 9.2 Other information

Information with regard to physical hazard classes

Other safety characteristics

Surface tension

hazard classes acc. to GHS (physical hazards): not relevant

 $73 \, ^{\text{mN}}/_{\text{m}} (20 \, ^{\circ}\text{C})$ 

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

## 10.2 Chemical stability

See below "Conditions to avoid".

## 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

## 10.5 Incompatible materials

There is no additional information.

# 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

## 12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

## 12.3 Bioaccumulative potential

Data are not available.

n-Octanol/water (log KOW)

<3 (10043-01-3)

#### 12.4 Mobility in soil

Data are not available.

# 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

# Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

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#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

# **SECTION 14: Transport information**

14.1 UN number or ID number not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods

regulations

14.6 Special precautions for user

There is no additional information.

# 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

# Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

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

# Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

1	No	Name of substance	CAS No	Type of registration
	75	Aluminium sulphate, hexadecahy- drate		2020/2081/EC annex XVII

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list Not listed.

### **Seveso Directive**

No	Dangerous substance/hazard categories		
	not assigned		
Deco-Paint I	Deco-Paint Directive		
VOC content	VOC content 0 %		
Industrial Emissions Directive (IED)			
VOC content	ontent 0 %		

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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not listed.

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed.

# **Water Framework Directive (WFD)**

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Aluminium sulphate, hexadecahydrate		a)	

# <u>Lege</u>nd

a)

Indicative list of the main pollutants

# Regulation on persistent organic pollutants (POP)

Not listed

# 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

# Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
2.3	Endocrine disrupting properties:  Does not contain an endocrine disruptor (EDC) in a concentration of  ≥ 0,1%.	Endocrine disrupting properties:  Does not contain an endocrine disruptor (ED) in a concentration of  ≥ 0,1%.	yes
6.2	Environmental precautions: Keep away from drains, surface and ground water. Retain contam- inated washing water and dispose of it.	Environmental precautions: Not required. Disposal considerations: see section 13.	yes
12.6	Endocrine disrupting properties:  Does not contain an endocrine disruptor (EDC) in a concentration of  ≥ 0,1%.	Endocrine disrupting properties:  Does not contain an endocrine disruptor (ED) in a concentration of  ≥ 0,1%.	yes
13.1	Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.	Sewage disposal-relevant information: Avoid release to the environment. Refer to special instructions/ safety data sheets.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC N₀	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association

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Abbr.	Descriptions of used abbreviations	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001	
STEL	short-term exposure limit	
SVHC	Substance of Very High Concern	
TWA	TWA time-weighted overage	
VOC	Volatile Organic Compounds	
vPvB	very Persistent and very Bioaccumulative	

# Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

# List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H318	Causes serious eye damage.

### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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