According to Regulation (EC) No 1907/2006

# FLOCCULATION POWDER RSA-H

Version number: 7

Issued: 2023-11-22
Replaces SDS: 2023-10-06

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

### 1.1. Product identifier

# Trade name

FLOCCULATION POWDER RSA-H

### Article No.

9202

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

# Relevant identified uses

Water treatment material.

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

#### Supplier

Hedson Technologies AB

Address

Hammarv. 4

SE - 232 37 Arlöv

Sweden

Telephone

+46 40 53 42 00

Email

info@hedson.se

# 1.4. Emergency telephone number

112

### Available outside office hours

Yes

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

# Classification

Serious eye damage, hazard category 1

# **Hazard statements**

H318

According to Regulation (EC) No 1907/2006

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#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

# **Hazard pictograms**



# Signal word

Danger

### **Hazard statements**

H318 Causes serious eye damage.

# **Precautionary statements**

P280 Wear protective gloves/protective clothing/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.

# More information

Contains:

Aluminiumsulfat

Calcium oxide

### 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

The product does not contain any substances with endocrine disrupting properties.

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

# 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Aluminiumsulfat	10043-01-3 233-135-0 -	25 - <30%	Eye Dam. 1	H318 - -	-
Calcium oxide	1305-78-8 215-138-9 -	5 - <10%	Skin Irrit. 2, Eye Dam. 1, STOT SE 3 - resp. tract irrit.		-

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### Product based on

Polymer, Metal salts.

# Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

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

### 4.1. Description of first aid measures

Never give anything by mouth to an unconscious person or a person with cramps. When risk of unconsciousness, place and transport the victim in secured side position. Get medical advice/attention if you feel unwell.

# **Inhalation**

Provide fresh air.

# Skin contact

IF ON SKIN: Wash with plenty of water. Change contaminated clothing.

#### Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### Ingestion

If swallowed, immediately drink: Water.

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

A repeated, excessive dust exposure can cause pneumoconiosis.

### Inhalation

Dust in high concentrations may irritate the respiratory system.

### Skin contact

Frequently or prolonged contact with skin may cause dermal irritation.

# Eye contact

Causes serious eye damage.

Dust in the eyes will cause irritation.

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

Treat symptomatically.

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# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

# Unsuitable extinguishing media

Strong water jet

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

Sulphur oxides .

# 5.3. Advice for firefighters

# Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

### Other

Co-ordinate fire-fighting measures to the fire surroundings.

### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Keep upwind. Use personal protection equipment. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Take up mechanically. Avoid dust formation. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

According to Regulation (EC) No 1907/2006

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# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Preventive handling precautions

Advices on safe handling:

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. No special fire protection measures are necessary. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust.

During filling, metering and sampling should be used if possible:

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the exposure limit.

Wear protective gloves/protective clothing/eye protection/face protection.

# General hygiene

When using do not eat, drink or smoke. Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

# 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels : Store in tightly closed original container in a dry, cool and well-ventilated place.

Protect against: Moisture.

Hints on joint storage: No special measures are necessary.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Observe technical data sheet.

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

# 8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Source	Remark	Year
Calcium oxide (EU)	1305-78-8 215-138-9	1	<b>-</b> 4	2017/164/E U	2	2017

### **DNEL/DMEL**

According to Regulation (EC) No 1907/2006

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Product/Substance name (CAS No./EC No.)	Туре	Exposure	Value	Population	Effects
Aluminiumsulfat (10043-01-3/233-135-0)	DNEL	Chronic (long term) Inhalation	13.4 mg/m³	Workers	Systemic
Aluminiumsulfat (10043-01-3/233-135-0)	DNEL	Chronic (long term) Inhalation	3.3 mg/m³	Consumer	Systemic
Calcium oxide (1305-78-8/215-138-9)	DNEL	Chronic (long term) Inhalation	1 mg/m³	Workers	Local
Calcium oxide (1305-78-8/215-138-9)	DNEL	Acute (short term) Inhalation	4 mg/m³	Workers	Local
Calcium oxide (1305-78-8/215-138-9)	DNEL	Chronic (long term) Inhalation	1 mg/m³	Consumer	Local
Calcium oxide (1305-78-8/215-138-9)	DNEL	Acute (short term) Inhalation	4 mg/m³	Consumer	Local

# PNEC/PEC

Product/Substance name (CAS No./EC No.)	Туре	Environmental compartment	Value
Calcium oxide (1305-78-8/215-138-9)	PNEC	Freshwater	0.37 mg/l
Calcium oxide (1305-78-8/215-138-9)	PNEC	Marine water	0.24 mg/l
Calcium oxide (1305-78-8/215-138-9)	PNEC	Sewage Treatment Plant	2.27 mg/l
Calcium oxide (1305-78-8/215-138-9)	PNEC	Soil	817.4 mg/kg soil dry weight

# 8.2. Exposure controls

# Appropriate engineering controls

Dust should be exhausted directly at the point of origin.

# **Personal Protective Equipment Symbols**





# Eye / face protection

Suitable eye protection: Eye glasses

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# **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

#### Other skin protection

Protective clothing.

# Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory equipment: Half-face mask (DIN EN 140).

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

# 9.1. Information on basic physical and chemical properties

### Physical state

Powder

# **Colour**

grey

### Odour

odourless

# Melting point / freezing point

No data available

# Boiling point or initial boiling point and boiling range

No data available

# **Flammability**

No data available

#### Lower and upper explosion limit

No data available

### Flash point

No data available

#### Auto-ignition temperature

No data available

# **Decomposition temperature**

No data available

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### pН

7 (at 20 °C)

# Kinematic viscosity

No data available

### Solubility

No data available

### Water solubility

slightly soluble

### Partition coefficient n-octanol/water

No data available

# Vapour pressure

No data available

# **Density and/or relative density**

No data available

# Relative vapour density

No data available

# **Explosive properties**

Not considered to be explosive.

# Oxidising properties

Not oxidising.

# Particle characteristics

No data available

# 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No specific reactivity hazards associated with this product.

# 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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### 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

Strong oxidising substances. Acids. Alkalis.

# 10.6. Hazardous decomposition products

Sulphur oxides .

# **SECTION 11: Toxicological information**

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

Based on available data, the classification criteria are not met.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
Aluminiumsulfat 10043-01-3 / 233- 135-0	LD50	> 9000 mg/kg	oral	Rat	Pharmacology and Tox

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

# Serious eye damage/irritation

Causes serious eye damage.

# Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

### Repeated dose toxicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

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# STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Not applicable.

# 11.2. Information on other hazards

# **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

# Acute toxicity

Not classified as dangerous to the environment.

# Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of expos- ure	Species	Method / Guideline
Aluminiumsulfat 10043-01-3 / 233- 135-0	LC50	36,1 mg/L	96 hours	Gambusia affinis (Mosquito fish)	Stockmeier
Calcium oxide 1305-78-8 / 215- 138-9	LC50	1070 mg/L	96 hours	Cyprinus carpio (Common Carp)	-

# 12.2. Persistence and degradability

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

# 12.3. Bioaccumulative potential

# Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow	
Aluminiumsulfat 10043-01-3 / 233-135-0	< 3	

# 12.4. Mobility in soil

No data available

According to Regulation (EC) No 1907/2006

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### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Disposal considerations

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Empty containers should be taken for local recycling, recovery or waste disposal. Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Waste code	Waste description		
16 03 04	inorganic wastes other than those mentioned in 16 03 03		
Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.			

# **SECTION 14: Transport information**

### 14.1. UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

# 14.2. UN proper shipping name

Not applicable

# 14.3. Transport hazard class(es)

Not applicable

# 14.4. Packing group

Not applicable

According to Regulation (EC) No 1907/2006

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### 14.5. Environmental hazards

Not applicable

# 14.6. Special precautions for user

Not applicable

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

Not applicable

# **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

CLP - Regulation (EC) No 1272/2008

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions): 75

### National regulations

No data available

# Other regulations, limitations and legal regulations

Water hazard class (D): 1 slightly hazardous to water

# 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

# **SECTION 16: Other information**

# Changes to previous revision

Amendments made in accordance with Commission regulation (EU) 2020/878 of 18 June 2020 amending Annex II to REACH.

# Abbreviations

PBT = Persistent, Bioaccumulative and Toxic.

vPvB = very Persistent and very Bioaccumulative.

CLP: Classification, Labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

CAS: Chemical Abstracts Service

LD50: Lethal dose for 50 % of the test population (lethal median dose).

LC50: Deadly concentration for 50 % of a test population.

# Evaluation methods for classification

The evaluation was carried out according to the calculation method.

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# Phrase meaning

Eye Dam. 1 - Serious eye damage, hazard category 1

Skin Irrit. 2 - Skin irritation, hazard category 2

 ${\tt STOT\,SE\,3-resp.\,tract\,irrit.\,-\,Specific\,Target\,Organ\,Toxicity} \\ --\, {\tt Single\,exposure,\,hazard\,category\,\,3-resp.\,tract\,irrit.\,-\,Specific\,Target\,Organ\,Toxicity} \\ --\, {\tt Single\,ex$ 

respiratory tract irritation

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.