(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**

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Version: 1

Revision date: 26/07/2016

Page 1 of 10 Print date: 26/07/2016

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

### 1.1 Product identifier.

Product Name:

CTX-41 Flocculant

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

Flocculant Uses advised against: Uses other than those recommended.

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

Company:	Fluidra Comercial España
Address:	Pintor Velazquez 10
City:	08213 Polinyà
Province:	(Barcelona) Spain
Telephone:	902 42 32 22
Fax:	+34 93 713 41 11
E-mail:	clientes@fluidra.es

**1.4 Emergency telephone number:** +34 937135060 (Only available during office hours; Monday-Friday; 08:00-18:00) Anti poisoning centre:

ITALY (Rome): 06/305 43 43 ITALY (Milan): 02/66 10 10 29

SPAIN: +34 91 562 04 20

FRANCE (Paris): 01 40 05 48 48 FRANCE (Tolousse): 05 61 77 74 47 FRANCE (Marseille): 04 91 75 25 25

PORTUGAL: 808 250 143

### **SECTION 2: HAZARDS IDENTIFICATION.**

### 2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008: Eye Dam. 1 : Causes serious eye damage. Met. Corr. 1 : May be corrosive to metals.

### 2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008: Pictograms:



Signal Word: Danger H statements: H318 H290

Causes serious eye damage. May be corrosive to metals.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 2 of 10 Print date: 26/07/2016

P statements:

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

 P102
 Keep out of reach of children.

 P103
 Read label before use.

 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/...

Contains:

Aluminum chloride hydroxide sulfate

### 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification - Regulation (EC) No 1272/2008	
Identifiers	Name	Concentrate	Classification	specific concentration limit
CAS No: 39290-78-3 EC No: 254-400-7 Registration No: 01- 2119531540-51-XXXX	Aluminum chloride hydroxide sulfate	3 - 25 %	Eye Dam. 1, H318 - Met. Corr. 1, H290	-

(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

## **SECTION 4: FIRST AID MEASURES.**

### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

### Inhalation.

If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

### Eye contact.

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting. Remove the person from the contaminated area. If the person is unconscious, lay on his side with head lower and knees half bent. Keep body temperature.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 3 of 10 Print date: 26/07/2016

Move to the intoxicated person to a hospital and, whenever possible, bring the container or label. Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. OBTAIN IMMEDIATE MEDICAL ATTENTION. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water. 4.2 Most important symptoms and effects, both acute and delayed. Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions. Contact with skin: irritation. Contact with eyes: irritation. Swallowing: irritation to mucosal and digestive tract corrosion. Nausea Vomiting Delayed hypersensitivity Hepatic-renal disorders and neurotoxic. Inhalation: irritation to mucosal and respiratory tract. 4.3 Indication of any immediate medical attention and special treatment needed. In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: The dilution with water or milk is appropiate if there was no vomiting (adults from 120 - 140 ml, children do not exceed 120 ml).

Contraindication: Neutralization with bicarbonate.

In case of ingestion, assess the performance of an endoscopy.

Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES.**

### 5.1 Extinguishing media.

### Recommended extinguishing methods.

Extinguisher powder or  $CO_2$ . In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

### 5.2 Special hazards arising from the mixture.

### Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

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

For exposure control and individual protection measures, see section 8.

### 6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 4 of 10 Print date: 26/07/2016

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

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

### **SECTION 7: HANDLING AND STORAGE.**

### 7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

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

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

**7.3 Specific end use(s).** None in particular.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
Aluminum chloride hydroxide sulfate	DNEL	Inhalation, Long-term, Systemic effects	1,8
N. CAS: 39290-78-3	(Workers)		(mg/m3)
N. CAS: 59290-78-5 N. CE: 254-400-7	DNEL	Oral, Long-term, Systemic effects	0,5
IN. CE; 234-400-7	(Workers)		(mg/kg)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum. CAS: 39290-78-3

TLV TWA - 2 mg/m3 (Al)

## 8.2 Exposure controls.

### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Flocculant
Breathing protection	on:
If the recommended	technical measures are observed, no individual protection equipment is necessary.
Hand protection:	
PPE:	Work gloves.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 5 of 10 Print date: 26/07/2016

Characteristics:	«CE» marking, category I.			
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420			
	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.			
Maintenance:	Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or			
	adhesives.			
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight.			
Observations.	Always use with clean, dry hands.			
Material:	PVC (polyvinyl chloride)Breakthrough time (min.):> 480Material thickness (mm):0,35			
Eye protection:				
PPE:	Face shield.			
Characteristics:	«CE» marking, category II. Face and eye protector against splashing liquid.			
CEN standards:	EN 165, EN 166, EN 167, EN 168			
	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should			
Maintenance:	be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move			
	smoothly.			
Observations:	Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm			
Observations.	vertically once attached to the frame.			
Skin protection:				
PPE:	Protective clothing.			
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in			
characteristics.	order not to obstruct the user's movements.			
CEN standards:	EN 340			
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by			
Maintenance.	the manufacturer.			
	The protective clothing should offer a level of comfort in line with the level of protection provided in			
Observations:	terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level			
	of activity and the expected time of use.			
PPE:	Work footwear.			
Characteristics:	«CE» marking, category II.			
CEN standards:	EN ISO 13287, EN 20347			
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should			
	not be used by other people.			
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any			
	injury resulting from an accident			

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

### 9.1 Information on basic physical and chemical properties.

Appearance:Liquid Colour: Colourless Odour:Characteristic (agreeable) Odour threshold:N.A./N.A. pH:3.5 - 4.5 (1%) Melting point:N.A./N.A. Boiling Point: 100 - 120 °C Flash point: N.A./N.A. Evaporation rate: N.A./N.A. Inflammability (solid, gas): N.A./N.A. Lower Explosive Limit: N.A./N.A. Upper Explosive Limit: N.A./N.A. Vapour pressure: N.A./N.A. Vapour density:N.A./N.A. Relative density:1.18 - 1.22 (25 °C) g/cm3 Solubility:N.A./N.A. Liposolubility: N.A./N.A. Hydrosolubility: 100 % (20 °C) Partition coefficient (n-octanol/water): N.A./N.A. Auto-ignition temperature: N.A./N.A.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 6 of 10 Print date: 26/07/2016

Decomposition temperature: N.A./N.A. Viscosity: N.A./N.A. Explosive properties: N.A./N.A. Oxidizing properties: No aplicable

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2. Other information.

### SECTION 10: STABILITY AND REACTIVITY.

### 10.1 Reactivity.

The product does not present hazards by their reactivity.

### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

10.4 Conditions to avoid.

- Avoid contact with bases.

#### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

#### **10.6** Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

### SECTION 11: TOXICOLOGICAL INFORMATION.

### 11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

### Toxicological information about the substances present in the composition.

Name	Acute toxicity			
Indille	Туре	Test	Kind	Value
	Oral	LD50	Rat	2630 mg/kg
Aluminum chloride hydroxide sulfate	Dermal	LD50	Rat	> 2000 mg/kg
CAS No: 39290-78-3 EC No: 254-400-7	Inhalation	LC50	Rat	> 5 mg/l (4 h)

a) acute toxicity;

Not conclusive data for classification.

### b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

(in accordance with Regulation (EU) 2015/830)

## **CTX-41 Flocculant**

Version: 1 Revision date: 26/07/2016



Page 7 of 10 Print date: 26/07/2016

d) respiratory or skin sensitisation; Not conclusive data for classification.

e) germ cell mutagenicity; Not conclusive data for classification.

f) carcinogenicity; Not conclusive data for classification.

g) reproductive toxicity; Not conclusive data for classification.

h) STOT-single exposure; Not conclusive data for classification.

i) STOT-repeated exposure; Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

## SECTION 12: ECOLOGICAL INFORMATION.

### 12.1 Toxicity.

Name	Ecotoxicity			
Name	Туре	Test	Kind	Value
	Fish	LC50	Fish	> 1000 mg/l (96 h) [1]
		[1] TG 203		
Aluminum chloride hydroxide sulfate	Aquatic	EC50	Daphnia	98 mg/l (48 h) [1]
	invertebrates	[1] TG 202		
		EC50	Algae	14 mg/l (72 h) [1]
CAS No: 39290-78-3 EC No: 254-400-7	Aquatic plants	[1] TG 201		

### 12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

### 12.3 Bioaccumulative potencial.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
Name	Log Pow	BCF	NOECs	Level
Aluminum chloride hydroxide sulfate	0	-	-	Very low
N. CAS: 39290-78-3 EC No: 254-400-7				very IOW

### 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Page 8 of 10

Print date: 26/07/2016

Version: 1

Revision date: 26/07/2016

### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

### SECTION 13 DISPOSAL CONSIDERATIONS.

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

### **SECTION 14: TRANSPORT INFORMATION.**

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID. Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

<u>Air</u>: Transport by plane: ICAO/IATA. Transport document: Airway bill.

## 14.1 UN number.

UN No: UN3264

### 14.2 UN proper shipping name.

Description: UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS ALUMINUM CHLORIDE HYDROXIDE SULFATE), 8, PG III, (E)

14.3 Transport hazard class(es).

Class(es): 8

## 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: No

## 14.6 Special precautions for user.

Labels: 8



Hazard number: 80 ADR LQ: 5 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B Proceed in accordance with point 6.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code.

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1

### Revision date: 26/07/2016

Page 9 of 10 Print date: 26/07/2016

The product is not transported in bulk.

### SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See annex I of the Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances.

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

### 15.2 Chemical safety assessment.

There has been no evaluation a chemical safety assessment of the product.

## **SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

H290	May be corrosive to metals.
H318	Causes serious eye damage.

Classification codes:

Eye Dam. 1 : Serious eye damage, Category 1 Met. Corr. 1 : Corrosive to metals, Category 1

Sections changed compared with the previous version:

1,2,14,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

### Labelling in accordance with Directive 1999/45/EC:

Symbols:



111100

R Phrases: R41

Risk of serious damage to eyes.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
39290-78-3	Aluminum chloride hydroxide sulfate	Registered

Abbreviations and acronyms used:

(in accordance with Regulation (EU) 2015/830)

# **CTX-41 Flocculant**



Version: 1 Revision date: 26/07/2016 Page 10 of 10 Print date: 26/07/2016

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- BCF: Bioconcentration factor.
- CEN: European Committee for Standardization.
- DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
- DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
- EC50: Half maximal effective concentration.
- PPE: Personal protection equipment.
- IATA: International Air Transport Association.
- IMDG: International Maritime Code for Dangerous Goods.
- LC50: Lethal concentration, 50%.
- LD50: Lethal dose, 50%.
- Log Pow: Logarithm of the partition octanol-water.
- NOEC: No observed effect concentration.
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data: http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/ Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.