

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

## CTX-40 Flocculant



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

#### 1.1 Product identifier.

Product Name: CTX-40 Flocculant Chemical Name: Aluminiumsulfate CAS No: 10043-01-3

EC No: 233-135-0

Registration No: 01-2119531538-36-XXXX

#### 1.2 Relevant identified uses of the substance 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:

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 substance.

In accordance with Regulation (EU) No 1272/2008: Eye Dam. 1: Causes serious eye damage.

#### 2.2 Label elements.

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

Pictograms:



Signal Word:

Danger



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H statements:

H318 Causes serious eye damage.

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:

Aluminiumsulfate

#### 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.

 Chemical Name:
 Aluminiumsulfate

 CAS No:
 10043-01-3

 CE No:
 233-135-0

Registration No: 01-2119531538-36-XXXX

## 3.2 Mixtures.

Not Applicable.

#### 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.

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.



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After contact with skin, wash immediately with soap and plenty of water.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

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 mi).

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<sub>2</sub>. 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 substance.

#### 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.

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

The contaminated area should be immediately cleaned with an appropriate de-contaminator. 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.



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#### 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 at room temperature, 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
Aluminiumsulfate N. CAS: 10043-01-3	DNEL (Workers)	Dermal, Long-term, Local effects	10 (mg/kg
	DNEL (General population)	Oral, Long-term, Systemic effects	5 (mg/kg)
N. CE: 233-135-0	DNEL (Workers)	Dermal, Long-term, Systemic effects	1,8 (mg/m3)

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.

Concentration levels PNEC:

Name	Details	Value
Aluminiumsulfate	Water (freshwater)	34,6 (mg/kg)
N. CAS: 10043-01-3	Sediment (marine water)	3,46 (mg/kg)
N. CE: 233-135-0	Soil	33,1 (mg/kg)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

CAS: 10043-01-3 TLV TWA - 2 mg/m3 (Al) 8.2 Exposure controls.

#### 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 protec	tion:	505			
PPE:	Filter mask for protection against gases and particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				



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CEN standards: EN 136, EN 140, EN 405

Maintenance:

Should not be stored in places exposed to high temperatures and damp environments before use. Special

attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach

the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

Filter Type needed:

Observations:

Observations:

PPE:

Hand protection: PPE: Non-disposable protective gloves against chemicals.

«CE» marking, category III. Check the list of chemicals for which the glove has Characteristics:

been tested.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

A schedule for the periodical replacement of gloves should be established in order to guarantee their Maintenance:

replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.

They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could

reduce their strength.

Breakthrough time Material thickness Material: PVC (polyvinyl chloride) > 480 0.35 (min.): (mm):

Eye protection: Protective goggles against particle impacts.

Characteristics: «CE» marking, category II. Eye protector against dust and smoke.

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.

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, Observations:

scraping etc.

Skin protection: PPE: Chemical protective clothing

«CE» marking, category III. Clothing should fit properly. The level of protection

Characteristics: must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.

CEN standards: EN 464, EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034

In order to guarantee uniform protection, follow the washing and maintenance instructions provided by

Maintenance: the manufacturer.

The protective clothing's design should facilitate correct positioning, staying in place without moving for Observations:

the period of use expected, bearing in mind environmental factors as well as any movement or position

the user might adopt while carrying out the activity. Anti-static safety footwear against chemicals.

«CE» marking, category III. Check the list of chemicals against which the footwear

Characteristics: is resistant.

EN 15O 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN 15O 20344, EN 15O CEN standards:

20345

For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions Maintenance: specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is

observed.

The footwear should be cleaned regularly and dried when damp, although it should not be placed too Observations:

close to a source of heat in order to avoid any sharp changes in temperature.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

Appearance: Granulate Colour: White cream Odour:Odourless Odour threshold: N.A./N.A. pH:2 - 4 (1%)

Melting point: N.A./N.A. Boiling Point: N.A./N.A.



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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 - 1,1 g/cm<sup>3</sup> Solubility: N.A./N.A. Liposolubity: N.A./N.A.

Hydrosolubility: 900 g/l (20 °C)

Partition coefficient (n-octanol/water): N.A./N.A. Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A. Explosive properties: N.A./N.A. Oxidizing properties: No

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.

Name		Acute toxicity			
Name	Туре	Test	Kind	Value	
Aluminiumsulfate	Oral	LD50	Rat	>2000 mg/kg [1]	
And in the control of	Stat	[1] OCDE	401		



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		Dermal	LD50	Rabbit	>5000 mg/kg [1]
		Dermai	[1] OCD8	E 402	
CAS No: 10043-01-3	EC No: 233-135-0	Inhalation			

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;
 Product classified:

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

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)
Aluminiumsulfate	Aquatic invertebrates	LC50	Daphnia	> 160 mg/l (48h)
CAS No: 10043-01-3 EC No: 233-135-0	Aquatic plants			

## 12.2 Persistence and degradability.

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

#### 12.3 Bioaccumulative potencial.

No information is available regarding the bioaccumulation.

#### 12.4 Mobility in soil.

No information is available about the mobility in soil.



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

#### 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.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

#### 14.1 UN number.

Transportation is not dangerous.

#### 14.2 UN proper shipping name.

Transportation is not dangerous.

## 14.3 Transport hazard class(es).

Transportation is not dangerous.

## 14.4 Packing group.

Transportation is not dangerous.

#### 14.5 Environmental hazards.

Transportation is not dangerous.

#### 14.6 Special precautions for user.

Transportation is not dangerous.

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

Transportation is not dangerous.

#### SECTION 15: REGULATORY INFORMATION.

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

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.



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#### SECTION 16: OTHER INFORMATION.

Classification codes:

Eye Dam. 1 : Serious eye damage, Category 1

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 67/548/EEC:

Symbols:



Corrosive

R Phrases:

R35 Causes severe burns.

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

CAS No	Name	State
10043-01-3	Aluminiumsulfate	Registered

Abbreviations and acronyms used:

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: Haif maximal effective concentration.

PPE: Personal protection equipment.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are

Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

not expected in the environmental compartment.

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

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.