## Safety Data Sheet according to **Regulation (EG) 1907/2006**



created: 16.04.2009 updated: 07.12.2018

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Section 1	Identification of th	ne substance/mixture and of the company/undertaking		
1.1	Product identifier	WapoFloc60		
1.2	Relevant identified u	ses of the substance or the mixture and uses advised against.		
	Identified use of substance	Flocculant		
1.3	Supplier	TCDO Produktionsgesellschaft mbH Carola-Blome-Str. 7 A-5020 Salzburg Tel: +43 662 434342-0 Fax: +43 662 434342-3		
	Contact	Mr. G. Weiss Email: office@wapotec.at		
1.4	Emergency phone	+43 662 43 43 42-0 Office hours: MO - TH: 8.00 - 16.00, FR: 8.00 - 12.00		
		Toxicity information centre Vienna: Phone: +43 1 406 43 43 Available: 0-24h		

#### Section 2 **Hazards identification**

2.1 Classification of the substance or mixture



according to Directive (EC) N° 1272/2008

Corrosive to metals or mixtures cat. 1 Serious eye irritation cat. 1

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

2.2 Label elements

according to Directive (EC) 1272/2008



#### **Danger**

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

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



P102	Keep out of reach of children.
P280	Wear protective gloves/ eye protection.
P302 + P352	IF ON SKIN: Wash with soap and water.
P305 + P351	IF IN EYES: Rinse continuously with water for several minutes. Remove
+ P338	contact lenses if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/attention
P501	Dispose of contents/container to collection of hazardous waste.
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Danger defining components for labeling

Polyaluminum chloride (CAS: 1327-41-9)

2.3 Other hazards

Unknown.



### Section 3 Information on the ingredients

3.2 Mixtures

Chemical characteristics

Aquaous solution containing polyaluminium chloride.

C Dangerous ingredients

Name	CAS # / EC # / Index #	Con.%	Classification of Regulation 1272/2	on (EC)
Polyaluminium-chloride	1327-41-9 / 215-477-2 	17 - 23	Met. Corr. 1 Eye Dam. 1	H290 H318

<sup>\*</sup> For the wording of H-Phrases and danger classification see section 16.

<sup>\*\*</sup> For the substance a monitored workplace-related limit value is to be noted. (see section 8)



#### Section 4 First-aid measures

4.1 Description of first-aid measures

Remove immediately all contaminated clothing.

Consult physician if disturbances occur.

No serving in case of unconsciousness or cramps.

After inhalation

Fresh air supply. Consult physician if disturbances occur. In case of unconsciousness storage and transport in stable position.

After skin contact

After skin contact, wash with plenty of water and soap. Remove immediately all contaminated clothing.

4.3



Consult physician if skin irritation occurs.

After eye contact

After eye contact, rinse eye for 10 to 15 minutes with water holding eye lids apart. Immediately consult physician.

After ingestion

Rinse mouth with water. If victim is conscious: give plenty of water. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

Indication of immediate medical attention and special treatment needed

Depending on patient's condition, symptoms and general condition should be evaluated by a physician.



Section 5	Fire-fighting measures
5.1	Extinguishing media
	C Suitable extinguishing media
	Adapt extinguishing media to environment. Product itself is non flammable.
	<ul> <li>Unsuitable extinguishing media for safety reasons</li> </ul>
	None.
5.2	Special hazards arising from the substance or mixture
	May release small quantities of hydrogen chlorides at temperatures above boiling point.
5.3	Advice for firefighters
	Special protective equipment: Wear self-contained breathing apparatus and full protective clothing. Do not allow extinguishing water to penetrate into surface or ground water. Dispose of fire residues and contaminated fire extinguishing water in accordance with official regulations.

Section 6	Accidental release of material
6.1	Personal precautions, protective equipment and emergency procedures
	Restricted access to affected area until cleaning work is completed. Wear suitable protective clothing. Ensure sufficient ventilation. Avoid contact to product. Do not inhale vapours/aerosols.
6.2	Environmental precautions
	Do not empty into drains/surface water/ground water.  If the product enters into the sewage system or aquatic environment, notify the appropriate authorities.  Inform responsible authorities if the product penetrates into the ground.



6.3 Methods and material for containment and cleaning up

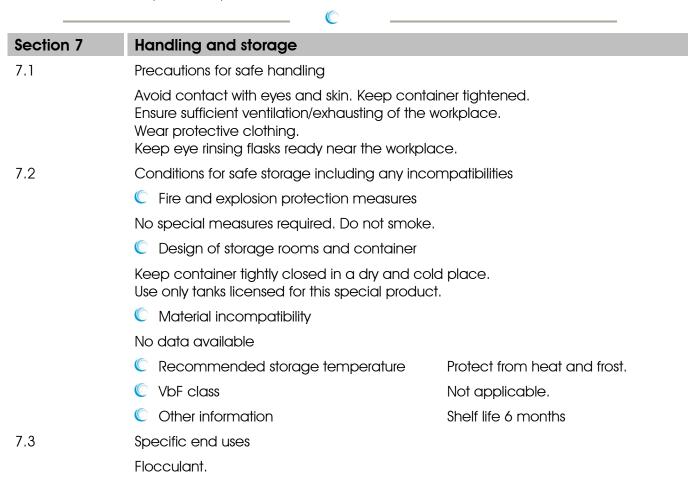
Bind with absorbent material (sand, diatomaceous earth, acid binder, universal binders, sawdust). Use neutralizers. Dilute with plenty of water. Dispose of absorbed

material in accordance with the regulations (see point 13).

6.4 Reference to other sections.

Protective measures see point 8.

Disposal see point 13.





#### 8.1 Control parameters

The product does not contain relevant quantities of substances with components to be controlled with limiting values (at work).

#### 8.2 Exposure controls

General protective and hygiene measures

Follow usual precautions when dealing with chemicals.

Keep away from food and drinks.

Do not eat or drink at work, wash hands before breaks and at end of work.

Avoid eye and skin contact.

Avoid inhaling steam/aerosols.

Change contaminated work wear and clean it before the next wearing.

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection

In case of vapour/aerosol use respiratory filter device.

C Hand protection

Protective gloves (gum, PVC, nitrile) are recommended to avoid skin contact. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The glove must be impermeable and resistant to the product. Choose glove material in consideration of the respective break through times, permeation rates and degradation.

Eye protection

Tightly sealed goggles.

Personal protection

Protective work wear. Choose protective clothing in consideration of concentration or rather quantity of the mixture used.

Environmental exposure controls

Do not allow undiluted to be released into the canalization /groundwater /surface water. If the product contaminates rivers, lakes or sewages, inform appropriate authorities in accordance with local regulations.



#### Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Liquid

Colour Colourless to yellowish

C Odour Odourless

Odour threshold
No data available.

9.2

None.



♥ pH	$3 \pm 0.5$
Melting point	No data available.
Initial boiling point / boiling range	100 – 120 °C
Flash poit	Not applicable.
Evaporation rate	No data available.
Flammability	No data available.
Upper explosion limit	No data available.
Lower explosion limit	No data available.
Vapour pressure (20°C)	No data available.
C Density (20°C)	1.1 – 1.2 g/cm³
Water solubility (20°C)	Fully miscible
Partition coefficient: n-octanol-water	No data available.
Auto ignition temperature	No data available.
Decomposition temperature	> 200 °C
Viscosity (20 °C)	No data available.
Explosive properties	The product is none-explosive
<ul> <li>Oxidizing properties</li> </ul>	No data available.
Other data	

Section 10	Stability and reactivity
10.1	Reactivity
	No hazardous reaction when using according to intended purpose.
10.2	Chemical stability
	No decomposition when using according to intended purpose.  Protect from frost.  To avoid thermic decomposition do not overheat.
10.3	Possibility of hazardous reactions
	No dangerous reactions known.
10.4	Conditions to avoid
	Avoid extreme temperatures.
10.5	Incompatible materials
	Chlorite/Hypochlorite/sulfite, galvanized surfaces, iron.
10.6	Hazardous decomposition products



Can release small amounts of hydrogen chlorides at temperatures above boiling point.

### Section 11 Toxicological information

11.1 Information on toxicological effects

The product was not subject to toxicological examinations.

Classification relevant LD/LC50-values of individual components (values in literature)

Name	CAS-Number	
Polyaluminum chloride	1327-41-9	LD <sub>50</sub> (oral/rat) > 2000mg/kg

C Acute toxicity

Based on available data the classification criteria are not met.

 $ATE_{mix}$  (oral, calculated) > 2000 mg/kg

Corrosive/irritant to skin.

Based on available data the classification criteria are not met.

Serious eye damage/eye irritation.

Category 1: Causes serious eye damage.

Respiratory/skin sensitization

Based on available data the classification criteria are not met.

Germ cell mutagenicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being listed as mutagen.

Based on available data the classification criteria are not met.

Carcinogenicity

The product does not contain any ingredients at a concentration equal or higher than 0,1%, being listed as carcinogen at the International Agency for Cancer Research (IARC) or the American Conference for Governmental Industrial Hygienic (ACGIH).

Reproductive toxicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being listed as toxic for reproduction.

Based on available data the classification criteria are not met.

Specific target organ toxicity for single exposure

Based on available data the classification criteria are not met.

© Specific target organ toxicity for multiple exposure
Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

Further information

Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex I.



Section 12	Ecological information
12.1	-
12.1	Toxicity
	No eco-toxicological tests carried out on the total mixture. Classification of preparation according to CLP-Regulation (EC) 1272/2008 Annex VI.
	Polyaluminium chloride: EC <sub>50</sub> (48h/daphnia) = 98 mg/l LC <sub>50</sub> (96h/danio rerio) > 1000 mg/l
12.2	Persistence and degradability
	No data available.
12.3	Bioaccumulation potential
	No data available.
12.4	Mobility in soil
	No data available for the product itself.
12.5	Results of PBT- and vPvB-assessment
	No data available for the product itself.
12.6	Other adverse effects
	Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow undiluted or un-neutralized product to reach sewage system or on-site preflooder.  Washing away of bigger amounts into drains or water bodies may lead to decreased
	pH values. A low pH-value harms aquatic organisms. As the pH-value is considerably increased when product is diluted to application concentration, the aqueous waste, emptied into drains after the use of the product, is only low water-dangerous.

### Section 13 Disposal considerations

13.1 Waste treatment methods

Product residues have to be disposed by authorized companies only. Do not allow to get into sewage system, surface water or ground water

Waste key number

51540 g (ÖNORM S 2100); List of waste

Waste name

Other salts, easily soluble.

European waste catalogue

160303\* (inorganic wastes contaning dangerous substances)

Notice: EAK-waste key is source-related. This may result in another classification. The decision is up to the enduser.



Contaminated packaging material

Recommendation: Empty container completely and deliver to a specialized company for reconditioning, recycling or disposal.

Section 14	Transport Information
14.1	UN-Number
	2581
14.2	UN Proper Shipping Name
	ADR/RID: ALUMINIUMCHLORID, LÖSUNG IMDG: ALUMINIUM CHLORIDE, SOLUTION
14.3	Transport hazard class
	8
14.4	Packing group
	III
14.5	Environmental hazards
	None.
14.6	Special precautions for the user
	Colourless to yellowish fluid. Highly corrosive to most metals. Vapor causes serious irritation to skin, eye and mucosae. Causes serious burns to skin, eye and mucosae. EmS: F-A, S-B
14.7	Transport in bulk according to Annex II of MARPOL and according to IBC-Code.
	Not relvant.

### Section 15 Regulatory information

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

This safety data sheet complies with the Regulations (EC) Reach  $N^{\circ}$  1907/2006. The alloy is classified according to regulation (EC)1272/2008 Annex I.

#### National regulatory:

#### Austria:

ChemG 1996 - amendment 2011.

This product is classified as hazardous mixture (hazardous preparation) according to the Austrian chemical legislation of 1996 - amendment 2011.

VbF - Directive about combustible liquids (BGBI 1991/240)
This product is not considered as combustible liquid.

#### Germany:



 Regulations on Facilities Handling Substances Dangerous to Water (AwSV) dated 18 April 2017
 WHC 1 (low hazardous for water)

Hazardous incidence ordinance

Hazardous incidence ordinance, Annex: Not mentioned

15.2 Chemical Safety Assessment

The mixture was not subjected to a chemical safety assessment.



### Section 16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as guidance for safe handling. Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

The categorization according to regulation CLP (EC) 1272/2008 is based on the classification of the single component according to Annex VI of regulation CLP (EC) 1272/2008 as well as upon manufacturer details completed by indications from hazardous material database.

Relevant H-Phrases

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

Relevant hazard classification

Met. Corr. 1 Solids or alloys corrosive to metals category 1

Eye Dam. 1 Serious eye irritation category 1

Written by UmEnA GmbH (http://www.umena.at)

Translated by WAPOTEC GmbH

Ssue Replaces previous versions

Short cuts
PBT persistent, bio-accumulative, toxic

vPvB high persistent, high bio-accumulative

WHC water hazardous class

ECHA European Chemicals Agency (http://www.echa.eu)

