

SAFETY DATA SHEET

Lonza

GLB DROP N' VAC

Version 1.0

SDS Number: 000000026383

Revision Date: 2018.04.25

SECTION 1. IDENTIFICATION

Product name : GLB DROP N' VAC A5049
 Product code : 000000026383

Manufacturer or supplier's details

Company : Arch Chemicals, Inc.
 1200 Bluegrass Lakes Parkway
 Alpharetta, GA
 30004
 United States of America (USA)

E-mail address : sds@lonza.com
 Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,
 CHEMTREC WORLD-WIDE: +1-703-527-3887.

Recommended use of the chemical and restrictions on use

Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Skin corrosion : Category 1B
 Serious eye damage : Category 1
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms : 

Signal word : Danger
 Hazard statements : H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**
 P260 Do not breathe mist or vapours.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P271 Use only outdoors or in a well-ventilated area.
Response:
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
 P363 Wash contaminated clothing before reuse.
Storage:
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Aluminium chloride	7446-70-0	13.00 - 17.00
Poly(diallyldimethylammonium chloride)	26062-79-3	1.00 - 3.00

SECTION 4. FIRST AID MEASURES

If inhaled : IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

In case of skin contact : IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.

In case of eye contact : IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.

If swallowed : IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Choose extinguishing media suitable for surrounding materials.

Specific hazards during firefighting : Material will not ignite or burn.

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Further information : Use water spray to cool unopened containers.
In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Environmental precautions

Air : Hazardous concentrations in air may be found in local spill area and immediately downwind.
Water : If the product contaminates rivers and lakes or drains inform respective authorities.
Soil : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Avoid breathing mist or vapor.
Conditions for safe storage : Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminium chloride	7446-70-0	(Respirable fraction.)		ACGIH
		TWA (Respirable fraction.)	1 mg/m ³	ACGIH
		REL	2 mg/m ³ (as Al)	NIOSH/GUIDE
		TWA	2 mg/m ³	Z1A

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		(as AI)	
	TWA (Respirable fraction.)	1 mg/m3	CAD ON OEL

Appropriate engineering controls

Engineering measures : Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation. No exposure limits exist for the constituents of this product.

Personal protective equipment

Respiratory protection : Respiratory protection not normally needed. If vapors, mists or aerosols are generated, wear a NIOSH approved respirator.

Hand protection

Remarks : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye protection : Chemical resistant goggles must be worn. Face-shield

Skin and body protection : Impervious clothing

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : clear
- Odour : none
- Odour Threshold : no data available
- pH : 1.5 - 2.0
- Melting point/freezing point : no data available
- Boiling point/boiling range : no data available
- Flash point : no data available
- Evaporation rate : no data available
- Flammability (solid, gas) : Product is not known to be flammable, combustible, pyrophoric or explosive.
- Upper explosion limit : no data available
- Lower explosion limit : no data available

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Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.13
Density	:	no data available
Solubility(ies)	:	
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Oxidizing properties	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	High temperatures Avoid freezing.
Incompatible materials	:	Oxidizing agents Metals Alkalis
Hazardous decomposition products	:	hydrochloric acid

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Eyes Skin Ingestion Inhalation
Acute toxicity		
Acute oral toxicity (LD50)	:	Believed to be > 5,000 mg/kg Species: Rat
Acute dermal toxicity (LD50)	:	Believed to be > 2,000 mg/kg Species: Rabbit

Skin corrosion/irritation

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Skin irritation : Remarks: Corrosive to skin

Serious eye damage/eye irritation

Eye irritation : Remarks: Corrosive to eyes

Respiratory or skin sensitisation

Sensitisation : Remarks: Not believed to be sensitising to skin.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information

Remarks: no data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**Toxicity to fish (LC50) : Believed to be approximately 10.8 mg/l
Remarks: (calculated)**Persistence and degradability**

no data available

Bioaccumulative potential**Components:****Aluminium chloride**

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil

no data available

Other adverse effectsOzone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

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Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Slightly toxic to fish and other aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If this product becomes a waste, it will be a hazardous waste.

SECTION 14. TRANSPORT INFORMATION

IATA

UN number : 2581
Proper shipping name : Aluminium chloride solution
Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

IMDG

UN number : 2581
Proper shipping name : Aluminium chloride solution
Transport hazard class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: no

ADR

UN number : 2581
Proper shipping name : ALUMINIUM CHLORIDE SOLUTION
Transport hazard class : 8
Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

RID

UN number : 2581
Proper shipping name : ALUMINIUM CHLORIDE SOLUTION
Transport hazard class : 8
Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Environmental hazards : no

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DOT

UN number : 2581
Proper shipping name : Aluminum chloride, solution
Transport hazard class : 8
Packing group : III
Labels : 8
Emergency Response Guidebook : 154
Number
Environmental hazards : no

TDG

UN number : 2581
Proper shipping name : ALUMINUM CHLORIDE SOLUTION
Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations**Massachusetts Right To Know**

Components	CAS-No.
Aluminium chloride	7446-70-0

Pennsylvania Right To Know

Components	CAS-No.
Aluminium chloride	7446-70-0

New Jersey Right To Know

Components	CAS-No.
Aluminium chloride	7446-70-0
Poly(diallyldimethylammonium chloride)	26062-79-3

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

First formulated version in SAP.

Arch is a wholly-owned subsidiary of Lonza and continues to operate as Arch Chemicals, Inc.

Revision Date : 2018.04.25

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and

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may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.