

SAFETY DATA SHEET (SDS) According to Regulation (EU) 2015/830

#### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

#### 1.1. PRODUCT IDENTIFIER

Product form: Mixture

**Trade name**: C-361 family, including C-361, C-361 C, C-361 XRR, C-361 UPS, and C-361 PSMBC **Other means of identification**: Cation Exchange Resin, Strong Acid Cation in Sodium Form

#### 1.2. RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Industrial resin for ion exchange process recommended. No known restrictions.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Evoqua Water Technologies, LLC

210 6<sup>th</sup> Ave STE 3300 Pittsburgh, PA 15222-2603

United States www.evoqua.com 724.772.0044

#### 1.4. EMERGENCY TELEPHONE NUMBER

800.704.9215 (SAFETEC) or +1-360-256-7365 for callers outside US territories and Canada

## SECTION 2: HAZARD(S) IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 [CLP] Eye Irrit. 2; Skin Irrit. 2; STOT SE. 3

#### 2.2. LABEL ELEMENTS

LABELLING ACCORDING TO REGULATION (EC) No. 1272/2008 [CLP/GHS]

HAZARD PICTOGRAM	SIGNAL WORD	HAZARD STATEMENT
GHS07	WARNING	H319 – Causes serious eye irritation (Category 2) H315 – Causes skin irritation (Category 2) H335 – May cause respiratory irritation (Category 3)

PRECAUTIONARY STATEMEN	NT(	S)
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TREEAUTIONARY STATEMENT(S)				
PREVENTION	EVENTION P210 Keep away from heat/sparks/open flames/hot surfaces.			
	P280	Wear protective gloves/eye protection.		
RESPONSE	P305+P351	IF IN EYES: Rinse cautiously with water for several minutes.		
STORAGE	P411	Store at temperatures not exceeding 50°C/ 122°F		
DISPOSAL	P501	Dispose of container to a licensed waste disposal contractor.		

#### **UNKNOWN ACUTE TOXICITY**

65% of the mixture consists of ingredient(s) of unknown acute oral/dermal/inhalation (dust/mist) toxicity

### UNKNOWN HAZARDS TO THE AQUATIC ENVIRONMENT

Contains 65% of components with unknown hazards to the aquatic environment.

#### 2.3. OTHER HAZARDS

Based on available data, no adverse physicochemical, human health, or environmental effects.

Mixture has not been assessed for PBT or vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

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<b>3.1. SUBSTANCE(S):</b> Not applicable.				
3.2. MIXTURE(S):				
COMMON NAME (Ingredient / Component)	PRODUCT IDENTIFIER (CAS-No./ EC-No.)	PERCENT BY WEIGHT	CLASSIFICATION ACCORDING TO (EC) No. 1272/2008 [CLP]	
Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts	CAS No. 69011-22-9 EC No. 614-896-1	35-65%	EYE IRRIT. 2, H319 SKIN IRRIT. 2, H315 STOT SE. 3, H335	
Water	CAS No. 7732-18-5 EC No. 231-791-2	Balance	NONE	

SECTION 4: FIRST-AID MEASURES				
4.1 DESCRIPTION OF FIRST AID N	MEASURES			
FOLLOWING INHALATION	Remove victim to fresh air. If breathing is difficult, provide oxygen. If not breathing, provide artificial respiration. In case of inhalation of decomposition products in a fire, symptoms may be delayed.			
FOLLOWING SKIN CONTACT	Wash all exposed skin area with mild soap and water while removing contaminated clothing and shoes.			
FOLLOWING EYE CONTACT	Immediately flush eyes with plenty of water for several minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.			
FOLLOWING INGESTION	If conscious and alert, rinse mouth and drink small quantities of water. Do not induce vomiting unless directed to do so by medical personnel.			
4.2. MOST IMPORTANT SYMPTO	MS AND EFFECTS, BOTH ACUTE AND DELAYED			
Causes serious eye irritation, skir	rirritation, and may cause respiratory irritation.			
4.3. INDICATION OF ANY IMMED	DIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED			
Treat symptomatically.				

#### SECTION 5: FIREFIGHTING MEASURES

NFPA 704 HEALTH = 1 FLAMMABILITY = 1 INSTABILITY = 0 SPECIAL HAZARDS = N/A

#### **5.1. EXTINGUISHING MEDIA**

**Suitable extinguishing media:** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Unsuitable extinguishing media:** None known.

#### 5.2. SPECIAL HAZARDS ARISING FROM THE MIXTURE

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Combustion products may include and are not limited to: Organic amine. Nitrogen oxides. Hydrogen chloride. Hydrocarbons. Carbon monoxide. Carbon dioxide. Benzene compounds. Water runoff from firefighting may be corrosive.

## 5.3. ADVICE FOR FIREFIGHTERS

Fire-fighters should wear proper protective equipment, including respiratory protection.

Wear a Self-Contained Breathing Apparatus (SCBA). Wear fire/flame resistant/retardant clothing (EN469).

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**For non-emergency personnel:** Evacuate surrounding areas. Keep unnecessary/unprotected personnel from entering. **For emergency responders:** Do not touch or walk through spilled material—resin beads are a **SLIPPING HAZARD**. Provide adequate ventilation. Wear appropriate respirator and personal protective equipment.

#### 6.2. ENVIRONMENTAL PRECAUTIONS

Avoid dispersal of spilled material to sewers, waterways, soil or air.

#### 6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain any spills with dikes or absorbents to prevent migration and entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material, avoiding dust generation. Place in a designated, labeled waste container.

#### 6.4. REFERENCE TO OTHER SECTIONS

Section 13: DISPOSAL CONSIDERATIONS. Section 7: HANDLING AND STORAGE. Section 8: PERSONAL PROTECTION.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1. PRECAUTIONS FOR SAFE HANDLING

Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work. Provide good ventilation in process area. Avoid all eye and skin contact.

#### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in the original container, tightly closed and upright to prevent leakage. Store in a cool and dry space, away from incompatible material (Section 10). It is recommended to store ion exchange resins at temperatures above the freezing point of water. If the resin should become frozen, the resin should not be mechanically handled and should be left to thaw out gradually at ambient temperature. Resin must be completely thawed before handling or use. No attempt should be made to accelerate the thawing process.

#### 7.3. SPECIFIC END USE(S)

An ion exchange resin is an insoluble matrix normally in the form of microbeads. Theses beads are typically porous; ions are trapped as other ions are released. The end use is called 'ion exchange'.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
8.1. CONTROL PARAMETERS: OCCUPATIONAL EXPOSURE LIMITS (OELs)					
OSHA PERMISSIBLE EXPOSURE LIMIT (PEL)  Not available.					
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) Not available.					
THRESHOLD LIMIT VALUE (TL	V)				
DERIVED NO-EFFECT LEVEL (D	DERIVED NO-EFFECT LEVEL (DNEL)  Not applicable.				
PREDICTED NO EFFECT CONCE	PREDICTED NO EFFECT CONCENTRATION (PNEC)  Not applicable.				
8.2. EXPOSURE CONTROLS	8.2. EXPOSURE CONTROLS				
8.2.1. APPROPRIATE ENGINEE	ERING CONTROLS				
Avoid splashing and dust generation. Emergency eye wash fountains and safety showers should be available in the					
immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.					
8.2.2. PERSONAL PROTECTIVE EQUIPMENT					
RESPIRATORY PROTECTION	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. In case of inadequate ventilation wear respiratory protection. Approved respirator (EN136/140).				
SKIN PROTECTION	Wear suitable protective gloves resistant to chemical penetration (EN374).				
	Suitable protective footwear.				
EYE/FACE PROTECTION	Safety glasses with side-shields or goggles (EN166).				

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES					
APPEARANCE	Spherical beads.	ODOR	Odorless.		
pH VALUE	Not applicable.	ODOR THRESHOLD	Not available.		
MELTING/FREEZING POINT	Not applicable.	VAPOR PRESSURE	Not applicable.		
INITIAL BOILING POINT	Not applicable.	VAPOR DENSITY	Not applicable.		
BOILING RANGE	Not applicable.	RELATIVE DENSITY	Not available.		
FLASH POINT	Not applicable.	SOLUBILITY (water)	Insoluble.		
EVAPORATION RATE	Not applicable.	PARTITION COEFFICEINT:	Not applicable.		
	45/2	n-octanol/water	92-1750		
FLAMMABILITY (solid, gas)	Not flammable.	AUTO-IGNITION TEMP.	>500°C		
UPPER EXPLOSIVE LIMIT	Not applicable.	DECOMPOSITION TEMP.	>230°C		
LOWER EXPLOSIVE LIMIT	Not applicable.	VISCOSITY	Not applicable.		
9.2. PHYSICAL HAZARDS					
EXPLOSIVES	Not applicable.	FLAMMABLE GASES	Not applicable.		
FLAMMABLE AEROSOLS	Not applicable.	OXIDIZING GASES	Not applicable.		
GASES UNDER PRESSURE	Not applicable.	FLAMMABLE LIQUIDS	Not applicable.		
FLAMMABLE SOLIDS	Not applicable.	SELF-REACTIVE MIXTURE	Not applicable.		
PYROPHORIC LIQUIDS	Not applicable.	PYROPHORIC SOLIDS	Not applicable.		
SELF-HEATING MIXTURE	Not applicable.	OXIDIZING LIQUIDS	Not applicable.		
OXIDIZING SOLIDS	Not applicable.	MIXTURE WHICH, IN			
METAL CORROSION	Not applicable.	CONTACT WITH WATER	Not applicable.		
ORGANIC PEROXIDES	Not applicable.	EMIT FLAMMABLE GASES			
9.3. OTHER INFORMATION					
BULK DENSITY	650 - 750 kg/m <sup>3</sup>				

SECTION 10: STABILITY AND REACTIVITY		
10.1. REACTIVITY	Non-reactive under normal storage and handling conditions.	
10.2. CHEMICAL STABILITY	Stable under normal storage and handling conditions.	
10.3. POSSIBILITY OF HAZARDOUS REACTIONS	Hazardous polymerization does not occur.	
10.4. CONDITIONS TO AVOID	High heat and sunlight can cause product to decompose.	
10.5. INCOMPATIBLE MATERIALS	Strong acids. Strong bases. Strong oxidizers. (e.g. nitric acid, chromic acid, hydrogen peroxide).	
10.6. HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition can generate hazardous gases: Aromatic compounds. Hydrocarbons. Organic sulfonates. Sulfur oxides.	

SECTION 11: TOXICOLOGICAL INFORMATION				
11.1. INFORMATION ON TOXICOLOGICAL EFFECTS				
HEALTH HAZ	HEALTH HAZARDS CLASSIFIED ADDITIONAL INFORMATION (YES/NO)		ADDITIONAL INFORMATION	
	Oral	NO	65% of the mixture consists of ingredient(s) of unknown acute oral toxicity. LD50 oral rat > 5000 mg/kg	
ACUTE TOXICITY	Dermal	NO	65% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.	
	Inhalation	NO	65% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity.	



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YES	Causes skin irritation.
YES	Causes serious eye irritation.
NO	Based on available data, the classification criteria are not met.
NO	Based on available data, the classification criteria are not met.
NO	Mixture is not listed in the National Toxicology Program (NTP) Annual Report on Carcinogens. (29 CFR 1910.1001-1050)
NO	Based on available data, the classification criteria are not met.
YES	May cause respiratory irritation.
NO	Based on available data, the classification criteria are not met.
NO	Based on available data, the classification criteria are not met.
	YES NO NO NO NO YES

SECTION 12: ECOLOGICAL INFORMATION				
	Acute Hazard to Aquatic Environment	Contains 65% of components with unknown acute		
12.1. TOXICITY		hazards to the aquatic environment.		
	Chronic Hazard to Aquatic Environment	Not available.		
	Hazardous to Ozone Layer	Not available.		
12.2. PERSISTENCE AND DEGRADABILITY		Not available.		
12.3. BIOACCUMULATIVE POTENTIAL		Not available.		
12.4. MOBILITY IN SOIL		Not available.		
12.5. RESULTS OF PBT and vPvB ASSESSMENT		Not available.		
12.6 OTHER ADVERSE EFFECTS		Avoid release into environment.		

### SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. WASTE TREATMENT METHODS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24). Empty containers retain product residues. Waste disposal should be in accordance with existing federal state, provincial and or local environmental control laws. For disposal within the EC, refer to the European Waste Catalogue (EWC).

	LAND (ADR-RID-DOT)	INLAND WATERWAY (ADN)	AIR (IATA-ICAO)	SEA (IMDG-IMO)
14.1. UN NUMBER	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2. UN PROPER SHIPPING NAME	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3. TRANSPORT HAZARD CLASS(ES)	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.4. PACKING GROUP	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.5. ENVIRONMENTAL HAZARDS	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.6. SPECIAL PRECAUTIONS FOR USER	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				Not applicable.

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### SECTION 15: REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE

#### 15.1.1. EU REGULATIONS

Contains no Substances of Very High concern (SVHC) on REACH Annex XIV ("authorization list").

Contains no substances on the REACH Annex XVII restricted list. Contains no substances on the REACH candidate list.

#### 15.1.2. NATIONAL REGULATIONS

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US	FF	DE	D A	1
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US FEDERAL		
SARA 302 EXTREMELY HAZARDOUS SUBSTANCE	Not listed.	
SARA 304 EMERGENCY RELEASE NOTIFICATION	Not regulated.	
SARA 311/312 HAZARDOUS CHEMICAL	Immediate (acute) health hazard.	
SARA 313 (TRI reporting)	Not regulated.	
CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)	Not listed.	
OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)	Not regulated.	
CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPs)	Not regulated.	
CLEAN AIR ACT (CAA) SECTION 112(r) ACCIDENTAL RELEASE PREVENTION	Not regulated.	
SAFE DRINKING WATER ACT (SDWA)	Not regulated.	
CANADA		
TRANSPORTATION OF DANGEROUS GOODS (TDG)	Not regulated.	
WORKPLACE HAZARDOUS MATRIALS INFORMATION SYSTEMS (WHMIS)	Not regulated.	
GERMANY		
VwVwS Wassergefährdungsklasse, (WGK) Annex 4	(WGK) 3, precautionary	
Störfallverordnung (12.BImSchV) (HAZARDOUS INCIDENT ORDINANCE)	Not regulated.	
NETHERLANDS		
SZW-lijst van kankerverwekkende stoffen	Not listed.	
SZW-lijst van mutagene stoffen	Not listed.	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	Not listed.	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	Not listed.	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	Not listed.	

## 15.1.3 INTERNATIONAL INVENTORIES

COUNTRY	INVENTORY	LISTED (YES/NO)
AUSTRAILIA	AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS)	YES
CANADA	DOMESTIC SUBSTANCES LIST (DSL)	YES
	NON-DOMESTIC SUBSTANCES LIST (NDSL)	NO
CHINA	INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC)	YES
EUROPE	EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)	NO
	EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)	NO
JAPAN	INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS)	YES
KOREA	EXISTING CHEMICALS LIST (ECL)	YES
NEW ZEALAND	NEW ZEALAND INVENTORY	YES
THE PHILIPPINES	PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS)	YES
UNITED STATES & PUERTO RICO	TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY	EXEMPT

### 15.2. CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out.



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	OTHER INFORMATION				
DISCLAIMER	This information is based upon our current knowledge for the sole intended purpose of this product.				
	However, no warranty is expressed or implied regarding the specific properties of the product. It is				
X	the buyer's responsibility to ensure that its activities comply with fede				
REVISION	Revision 2: December 30, 2021. Updated Emergency contact phone numb	oer.			
INDICATOR	Revision 1: December 17, 2018. This SDS replaces the former MSDS for this product pursuant to				
	OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200(g) Appendix D. The MSDS for this				
	product should be considered obsolete. This SDS complies with the fifth revision of the UN GHS,				
	Regulation (EC) No 1272/2008 [CLP], and (EC) No 1907/2006 [REACH],	as amended by (EU) 2015/830.			
ABBREVIATIONS	ADR: European Agreement concerning the International Carriage of Da	angerous Goods by Road			
AND	ADN: European Agreement concerning the International Carriage of Da	angerous Goods by Inland			
ACRONYMS	Waterways				
	CERCLA: Comprehensive Environmental Response, Compensation and Liability Act.				
	<b>DOT</b> : Department of Transportation				
	HMIS: Hazardous Materials Identification System				
	IATA: International Air Transportation Association				
	IBC CODE: International Code for the Construction and Equipment of Ships carrying Dangerous				
	Chemicals in Bulk (International Bulk Chemical Code).				
	ICAO: International Civil Aviation Organization				
	IMDG: International Maritime Dangerous Goods				
	IMO: International Maritime Organization				
	LD50: Lethal Dose for 50% of the test population				
	MARPOL 73/78: International Convention for the Prevention of Pollution from Ships, 1973, as				
	modified by the Protocol of 1978 relating thereto, as amended.				
	NFPA: National Fire Protection Association				
	PBT: Persistent, Bioaccumulative, Toxic				
	vPvB: Very Persistent and very Bioaccumulative				
	RCRA: Resources Conservation and Recovery Act				
	RID: Regulation concerning the International Carriage of Dangerous Goods by Rail				
	SARA: Superfund Amendments and Reauthorization Act				
	STOT: Specific Target Organ Toxicity				
	VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters				
REFERENCES	APCISS - Asia-Pacific Chemical Inventory Search System, website: http				
	ECHA – European Chemicals Agency, website: https://echa.europa.eu/	/			
	EUR-Lex – Access to European Union Laws: (EU) 2015/830, EC No. 1907/2006 (REACH) and EC No.				
	1272/2008 (CLP), website: https://eur-lex.europa.eu/				
	GHS – Globally Harmonized System of Classification and Labelling of Chemicals (Rev.7) (2017),				
	website: http://www.unece.org/trans/danger/publi/ghs/ghs_rev07/07	7files_e0.html			
	NITE – National Institute of Technology and Evaluation, website: https://www.nite.go.jp/ OSHA – Occupational Safety and Health Administration (HazCom Standard 29 CFR 1910.1200),				
	website: https://www.law.cornell.edu/cfr/text/29/1910.1200				
	PubChem – U.S. National Library of Medicine, National Center for Biot	echnology Information,			
	website: https://pubchem.ncbi.nlm.nih.gov/search/.				
	TSCA Inventory Listing –				
	https://iaspub.epa.gov/sor_internet/registry/substreg/searchandretri				
Control of the Contro	IND PROCEDURE USED TO DERIVE THE CLASSIFICATION FOR MIXTURES				
CLASSIFICA	TION ACCORDING TO REGULATION (EC) No. 1272/2008 [CLP]	CLASSIFICATION PROCEDURE			
E.	ye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE. 3, H335	Calculation method			