

This document replaces SDS 0099-0004 and 0099-0005 for the European Union Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of Issue: 07/12/2020 Version: 1.0

<b>SECTION 1: Identification </b>	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product Form	: Mixture
Product Name	: Fluid, Fyrite, O2, 21% and 60%; Fluid, Fyrite, O2, 7%
.2. Relevant identified uses o	of the substance or mixture and uses advised against
.2.1. Relevant identified uses	
ndustrial/Professional use spec	: Industrial.
	For professional use only.
Use of the substance/mixture	: Industrial use. For professional use only.
L.2.2. Uses advised against	
No additional information available	
L.3. Details of the supplier of t	the safety data sheet
Company	
Bacharch, Inc.	
521 Hunt Valley Circle	
New Kensington, PA 15068	
724-334-5760	
www.mybacharach.com	
nsdsr@mybacharach.com	
.4. Emergency telephone nur	
	300-424-9300 (CHEMTREC)
ECTION 2: Hazards identi	fication
.1. Classification of the subst	ance or mixture
lassification According to Regulation	n (EC) No. 1272/2008 [CLP]
1et. Corr. 1	H290
cute Tox. 3 (Oral)	H301
kin Corr. 1	H314
ye Dam. 1	H318
esp. Sens. 1	H334
kin Sens. 1	H317
/luta. 2	H341
Repr. 2	H361
TOT SE 3	H335
TOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
ull text of hazard classes and H-state	ments : see section 16
2.2. Label elements	
abelling According to Regulation (EC	C) No. 1272/2008 [CLP]
lazard pictograms (CLP)	
	GH505 GH506 GH508 GH509
ignal word (CLP)	: Danger
lazard statements (CLP)	: H290 - May be corrosive to metals.
/ /	H301 - Toxic if swallowed.
	H314 - Causes severe skin burns and eye damage.
	H317 - May cause an allergic skin reaction.
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H335 - May cause respiratory irritation.
	H341 - Suspected of causing genetic defects.
	H361 - Suspected of damaging fertility or the unborn child.

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	H373 - May cause damage to organs through prolonged or repeated exposure.
	H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P234 - Keep only in original packaging.
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face
	protection/hearing protection.
	P284 - Wear respiratory protection.
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
	P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water .
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P310 - Immediately call a POISON CENTER or doctor.
	P312 - Call a POISON CENTRE or doctor if you feel unwell.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P330 - Rinse mouth.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or
	doctor.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P390 - Absorb spillage to prevent material damage.
	P391 - Collect spillage.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
	·
	P406 - Store in a corrosion-resistant container with a resistant inner liner.
	P501 - Dispose of contents/container to hazardous or special waste collection
	point, in accordance with local, regional, national and/or international regulation.
2.2 Other hazarda	

### 2.3. Other hazards

PBT: not relevant – no registration required vPvB: not relevant – no registration required Other hazards not contributing to the : classification

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	41,3 – 72,6	Not classified

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Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Chromium(III) chloride hexahydrate	(CAS-No.) 10060-12-5 (EC-No.) 233-038-3	13,4 – 28,9	Acute Tox. 4 (Oral), H302 Resp. Sens. 1B, H334 Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Zinc	(CAS-No.) 7440-66-6 (EC-No.) 231-175-3 (EC Index-No.) 030- 001-01-9	7,6 – 16,4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017- 002-00-2	5,2 – 11,1	Skin Corr. 1B, H314 STOT SE 3, H335
Mercury chloride (HgCl2)	(CAS-No.) 7487-94-7 (EC-No.) 231-299-8 (EC Index-No.) 080- 010-00-X	0,8 - 1,7	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Skin Corr. 1B, H314 Muta. 2, H341 Repr. 2, H361f STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)
Alcohols, C7-9-iso-, C8-rich	(CAS-No.) 68526-83-0 (EC-No.) 271-231-4	0,5 – 0,6	Skin Irrit. 2, H315 Eye Irrit. 2, H319

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Hydrochloric acid	(CAS-No.) 7647-01-0	( 0,1 ≤C < 10) Met. Corr. 1, H290
	(EC-No.) 231-595-7	( 10 ≤C < 25) Skin Irrit. 2, H315
	(EC Index-No.) 017-002-00-2	( 10 ≤C < 25) Eye Irrit. 2, H319
		( 10 ≤C < 25) STOT SE 3, H335
		( 10 ≤C < 25) Met. Corr. 1, H290
		( 25 ≤C < 100) Skin Corr. 1B, H314
		( 25 ≤C < 100) STOT SE 3, H335
		( 25 ≤C < 100) Met. Corr. 1, H290
Full text of H-statements: see sect	tion 16	

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

<ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
<ul> <li>When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.</li> </ul>
<ul> <li>Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Get immediate medical advice/attention.</li> </ul>
<ul> <li>Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.</li> </ul>
: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

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4.2.		nd effects, both acute and delayed
Sympton	ns/effects	: Toxic if swallowed. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitisation. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. May be harmful in contact with skin.
Sympto	ns/effects after inhalation	: May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.
Sympto	ms/effects after skin contact	: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.
Sympto	ms/effects after eye contact	: Causes permanent damage to the cornea, iris, or conjunctiva.
	ns/effects after ingestion	: This material is toxic in small amounts orally, and can cause adverse health effects or death. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic	symptoms	: Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
4.3.	-	medical attention and special treatment needed
If expos	ed or concerned, get medical adv	ice and attention. If medical advice is needed, have product container or label at hand.
SECTI	ON 5: Firefighting meas	ures
5.1.	Extinguishing media	
Suitable	extinguishing media	: Water spray, dry chemical, foam, carbon dioxide.
Unsuita	ole extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2.	Special hazards arising from	the substance or mixture
Fire haz		: Not considered flammable but may burn at high temperatures.
Explosic Reactivi	n hazard ty	<ul> <li>Contact with metallic substances may release flammable hydrogen gas.</li> <li>May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.</li> </ul>
case of f		: Thermal decomposition generates: Carbon oxides (CO, CO <sub>2</sub> ). Hydrogen chloride. Chlorine. Chromium oxides. Toxic vapours.
5.3.	Advice for firefighters	
	onary measures fire	: Exercise caution when fighting any chemical fire.
	ing instructions	: Use water spray or fog for cooling exposed containers.
	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
	formation	: Do not allow run-off from fire fighting to enter drains or water courses.
SECTI	ON 6: Accidental releas	e measures
6.1.	Personal precautions, protect	tive equipment and emergency procedures
General	measures	: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.
6.1.1.	For non-emergency personnel	
	ve equipment	: Use appropriate personal protective equipment (PPE).
Emerge	ncy procedures	: Evacuate unnecessary personnel.
	For emergency responders	
Protecti	ve equipment	: Equip cleanup crew with proper protection.
	ncy procedures	: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.
6.2.	Environmental precautions	

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

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

 For containment
 : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

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Methods for cleaning up	: Clean up spills immediately and dispose of waste safely. Cautiously neutralize
	spilled liquid. Absorb spillage to prevent material damage. Transfer spilled material
	to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

7.1.       Precautions for safe handling         Additional hazards when processed       : May release corrosive vapors. May be corrosive to metals.         Descriptions for safe handling       : Descriptions on a slothing on an alothing.	
Departure for one handling	
Precautions for safe handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray.Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle empty containers with care because they may still present a hazard.	
Hygiene measures       : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.	
7.2. Conditions for safe storage, including any incompatibilities	
Technical measures : Comply with applicable regulations.	
Storage conditions       : Keep container closed when not in use. Store in a dry, cool place. Store locked up.         Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Storage areas should be periodically checked for corrosion and integrity.	
Incompatible materials : Strong acids, strong bases, strong oxidizers. Metals. Halogenated compounds. Ammonia. Nitrogen containing compounds, ammonium compounds.	
Packaging materials : Store in corrosive resistant container with a resistant inner liner.	
7.3. Specific end use(s)	

Industrial use. For professional use only.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Chromium(III) chloride hexahydrate (10060-12-5)					
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,01 mg/m <sup>3</sup>			
Zinc (7440-66-6)	Zinc (7440-66-6)				
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (respirable fraction) 2 mg/m <sup>3</sup> (inhalable fraction)			
Hydrochloric acid (7647-	01-0)				
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>			
EU	IOELV TWA (ppm)	5 ppm			
EU	IOELV STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>			
EU	IOELV STEL (ppm)	10 ppm			
Austria	MAK Daily average value (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>			
Austria	MAK Daily average value (ppm)	5 ppm			
Austria	MAK Short time value [mg/m <sup>3</sup> ]	15 mg/m <sup>3</sup>			
Austria	MAK Short time value [ppm]	10 ppm			
Belgium	Limit value [mg/m <sup>3</sup> ]	8 mg/m <sup>3</sup>			
Belgium	Limit value [ppm]	5 ppm			
Belgium	Short time value [mg/m <sup>3</sup> ]	15 mg/m <sup>3</sup>			
Belgium	Short time value [ppm]	10 ppm			
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>			
Bulgaria	OEL TWA (ppm)	5 ppm			
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>			
Bulgaria	OEL STEL (ppm)	10 ppm			
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Hydrochloric acid (7647-01	-0)	
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	5 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	15 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	10 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	5 ppm
Cyprus	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	10 ppm
France	VLE [mg/m <sup>3</sup> ]	7,6 mg/m <sup>3</sup> (restrictive limit)
France	VLE [ppm]	5 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm)	2 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	Eight hours mg/m3	8 mg/m <sup>3</sup>
Gibraltar	Eight hours ppm	5 ppm
Gibraltar	Short-term mg/m3	15 mg/m <sup>3</sup>
Gibraltar	Short-term ppm	10 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	5 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	5 ppm
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
Italy	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	5 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	10 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	5 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	7,6 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	5 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	10 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	4 ppm
Switzerland	MAK (mg/m³)	3 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	2 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m³)	2 mg/m <sup>3</sup> (aerosol mist and gas)
United Kingdom	WEL TWA (ppm)	1 ppm (aerosol mist and gas)

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Hydrochloric acid (7647-01-0)		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (aerosol mist and gas)
United Kingdom	WEL STEL (OEL STEL) [ppm]	5 ppm (aerosol mist and gas)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Denmark	Grænseværdi (loftværdi) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Denmark	Grænseværdi (loftværdi) (ppm)	5 ppm
Estonia	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	5 ppm
Estonia	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	10 ppm
Finland	HTP-arvo (15 min)	7,6 mg/m <sup>3</sup> (anhydrous and in solution)
Finland	HTP-arvo (15 min) (ppm)	5 ppm (anhydrous and in solution)
Hungary	AK-érték	8 mg/m <sup>3</sup>
Hungary	CK-érték	16 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	5 ppm
Ireland	OEL (15 min ref) (mg/m3)	15 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	10 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	5 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	10 ppm
Luxembourg	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	5 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	10 ppm
Malta	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	5 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	10 ppm
Norway	Grenseverdier (Takverdi) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Norway	Grenseverdier (Takverdi) (ppm)	5 ppm
Poland	NDS (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m³)	8 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	5 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	10 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	5 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m³)	8 mg/m <sup>3</sup> (anhydrous)
Slovenia	OEL TWA (ppm)	5 ppm (anhydrous)
Slovenia	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (anhydrous)
Slovenia	OEL STEL (ppm)	10 ppm (anhydrous)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	2 ppm

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Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> ) 6 mg/m <sup>3</sup>		
Sweden	kortidsvärde (KTV) (ppm)	4 ppm	
Portugal	OEL TWA (mg/m³)	8 mg/m <sup>3</sup> (indicative limit value)	
Portugal	OEL TWA (ppm)	5 ppm (indicative limit value)	
Portugal	OEL STEL (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (indicative limit value)	
Portugal	OEL STEL (ppm)	10 ppm (indicative limit value)	
Portugal	OEL - Ceilings (ppm)	2 ppm	
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen	
Mercury chloride (HgCl2)	(7487-94-7)		
EU IOELV TWA (mg/m <sup>3</sup> ) 0,02 mg/m <sup>3</sup> (Mercury		0,02 mg/m <sup>3</sup> (Mercury and divalent inorganic mercury compounds)	
Bulgaria	OEL TWA (mg/m <sup>3</sup> ) OEL TWA (mg/m <sup>3</sup> ) 0,02 mg/m <sup>3</sup> (during the monitoring of to mercury and its divalent inorganic compounds, there should be taken in relevant biological monitoring test m complementary indicative limit value occupational exposure limits (Mercu divalent compounds)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup> (Mercury, inorganic divalent compounds including Mercury(II) oxide and Mercury(II) cloride)	
France	OEL chemical category (FR)	Carcinogen categories 1A, 1B, 2, Reproductive Toxin categories 1A, 1B, 2, Mutagen categories 1A, 1B, 2	
France	France - BLV	0,015 mg/l Parameter: Total inorganic Mercury - Medium: blood - Sampling time: end of shift at end of workweek 0,05 mg/g creatinine Parameter: Total inorganic Mercury - Medium: urine - Sampling time: prior to shift	
Greece	OEL TWA (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup>	
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup>	
Spain	VLA-ED (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup> (indicative limit value)	
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup>	
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup>	
	HTP-arvo (8h) (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup>	
Finland			
Finland Finland	OEL chemical category (FI)	Potential for cutaneous absorption	
Finland Finland Lithuania	OEL chemical category (FI) IPRV (mg/m <sup>3</sup> )	Potential for cutaneous absorption 0,02 mg/m <sup>3</sup> (Mercury compounds, divalent inorganic)	
Finland Lithuania		0,02 mg/m <sup>3</sup> (Mercury compounds, divalent	
Finland Lithuania Lithuania	IPRV (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup> (Mercury compounds, divalent inorganic)	
Finland	IPRV (mg/m <sup>3</sup> ) OEL chemical category (LT)	<ul> <li>0,02 mg/m<sup>3</sup> (Mercury compounds, divalent inorganic)</li> <li>Reproductive toxin, Mutagen</li> <li>0,02 mg/m<sup>3</sup></li> <li>0,02 mg/m<sup>3</sup> (the relevant biological monitoring techniques that complement the limit values for exposure to the professional environment must be taken into account during exposure monitoring for Mercury and its divalent inorganic compounds (Mercury, inorganic divalent</li> </ul>	
Finland Lithuania Lithuania Luxembourg	IPRV (mg/m <sup>3</sup> ) OEL chemical category (LT) OEL TWA (mg/m <sup>3</sup> )	<ul> <li>0,02 mg/m<sup>3</sup> (Mercury compounds, divalent inorganic)</li> <li>Reproductive toxin, Mutagen</li> <li>0,02 mg/m<sup>3</sup></li> <li>0,02 mg/m<sup>3</sup> (the relevant biological monitoring techniques that complement the limit values for exposure to the professional environment must be taken into account during exposure monitoring for Mercury and its divalent inorganical div</li></ul>	

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### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the

Personal protective equipment

- immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
  : Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation:
- wear respiratory protection.
- Materials for protective clothing Hand protection Eye and Face Protection Skin and body protection Respiratory protection
- : Chemically resistant materials and fabrics. Corrosion-proof clothing.
- : Wear protective gloves.
- : Chemical safety goggles and face shield.
- : Wear suitable protective clothing.
- : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

## : Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Appearance	: Blue			
Colour	: No data available			
Odour	: No data available			
Odour threshold	: No data available			
рН	: <1			
Evaporation rate	: No data available			
Melting point	: No data available			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapour pressure	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: No data available			
Solubility	: No data available			
Partition coefficient: n-octanol/water	: No data available			
Viscosity	: No data available			
Explosive properties	: No data available			
Oxidising properties	: No data available			
Explosive limits	: No data available			
9.2 Other information				

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

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### **10.3.** Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers. Metals. Halogenated compounds. Ammonia. Nitrogen containing compounds, ammonium compounds.

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

Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). May release flammable gases. Oxides of zinc. Hydrogen chloride. Chlorine. Chromium oxides. mercury oxides. Corrosive vapors. Toxic vapours.

### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity	: Toxic if swallowed.	
Fluid, Fyrite, O2, 21% and 60%; Fluid, Fyrite, O2, 7%		
ATE CLP (oral)	58,29 mg/kg bodyweight	
Chromium(III) chloride hexahydrate (	10060-12-5)	
LD50 oral rat	1870 mg/kg	
Hydrochloric acid (7647-01-0)		
LD50 oral	238 mg/kg	
LD50 dermal rabbit	> 5010 mg/kg	
Mercury chloride (HgCl2) (7487-94-7)		
LD50 oral rat	1 mg/kg	
LD50 oral	35,1 mg/kg	
LD50 dermal rabbit	41 mg/kg	
Alcohols, C7-9-iso-, C8-rich (68526-83-	-0)	
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2623 mg/kg	
Skin corrosion/irritation	: Causes severe skin burns.	
Serious eye damage/irritation	<ul> <li>pH: &lt; 1</li> <li>Causes serious eye damage.</li> <li>pH: &lt; 1</li> </ul>	
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if	

	inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not
	met)

Hydrochloric acid (7647-01-0)		
IARC group	3	
Mercury chloride (HgCl2) (7487-94-7)		
IARC group	3	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
STOT-single exposure	: May cause respiratory irritation. Causes damage to organs	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure. Causes damage to organs through prolonged or repeated exposure	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	

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According to Regulation (EC) No. 1907/2006 (REACH)	With its amendment Regulation (EU) 2015/830	
Symptoms/Injuries After Inhalation	: May be corrosive to the respiratory tract. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other sumptoms indicative of an allergis (consistingtion reaction	
Symptoms/Injuries After Skin Contact	<ul> <li>symptoms indicative of an allergic/sensitization reaction.</li> <li>Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.</li> </ul>	
Symptoms/Injuries After Eye Contact	: Causes permanent damage to the cornea, iris, or conjunctiva.	
Symptoms/Injuries After Ingestion	<ul> <li>This material is toxic in small amounts orally, and can cause adverse health effects or death. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.</li> </ul>	
Chronic Symptoms	: Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.	
Potential adverse human health effects a	nd : Toxic if swallowed.	
symptoms		
<b>SECTION 12: Ecological inform</b>	mation	
12.1. Toxicity		
Ecology - general	: Very toxic to aquatic life with long lasting effects.	
Chromium(III) chloride hexahydrate (10		
ErC50 (algae)	0,4 mg/l	
NOEC chronic crustacea	0,7 mg/l	
	0,7 mg/i	
Zinc (7440-66-6)		
LC50 fish 1	2,16 – 3,05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow- through])	
EC50 Daphnia 1	0,139 – 0,908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 fish 2	0,211 – 0,269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi- static])	
ErC50 (algae)	0,15 mg/l	
Hydrochloric acid (7647-01-0)		
LC50 fish 1	7,45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)	
Mercury chloride (HgCl2) (7487-94-7)		
LC50 fish 1	0,096 – 0,133 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	<ul> <li>&gt; 0,012 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])</li> </ul>	
LC50 fish 2	0,4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])	
	0,0015 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 Daphnia 2		
NOEC chronic crustacea	0,003 mg/l	
Alcohols, C7-9-iso-, C8-rich (68526-83-0)		
LC50 fish 1	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
12.2. Persistence and degradabilit	У	
Fluid, Fyrite, O2, 21% and 60%; Fluid, Fy	rite, O2, 7%	
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
Fluid, Fyrite, O2, 21% and 60%; Fluid, Fy	rite, O2, 7%	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asse	ssment	
Fluid, Fyrite, O2, 21% and 60%; Fluid, Fy		
PBT: not relevant – no registration requi		

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12.6. Other adverse effects			
Other information	: Avoid release to the environment.		
SECTION 13: Disposal considerations			
13.1. Waste treatment meth	ods		
Product/Packaging disposal recommendations	<ul> <li>Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.</li> </ul>		
Additional information	: Container may remain hazardous when empty. Continue to observe all precautions.		
Ecology - waste materials	: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.		

### **SECTION 14: Transport information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
2922	2922	2922	2922	2922
14.2. UN proper shi	pping name			
CORROSIVE LIQUID,	CORROSIVE LIQUID,	Corrosive liquid, toxic,	CORROSIVE LIQUID,	CORROSIVE LIQUID,
TOXIC, N.O.S.	TOXIC, N.O.S.	n.o.s. (Contains;	TOXIC, N.O.S.	TOXIC, N.O.S.
(Contains; Mercury	(Contains; Mercury	Mercury Chloride;	(Contains; Mercury	(Contains; Mercury
Chloride; Hydrochloric	Chloride; Hydrochloric	Hydrochloric Acid)	Chloride; Hydrochloric	Chloride; Hydrochloric
Acid)	Acid)		Acid)	Acid)
14.3. Transport haz	ard class(es)			
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
14.4. Packing group				
	I	II	II	11
14.5. Environmenta	l hazards			
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : Yes	environment : Yes	environment : Yes	environment : Yes	environment : Yes
	Marine pollutant : Yes			
14.6. Special precau	itions for user			

14.6. Special precautions for user

No additional information available

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

Not applicable

### **SECTION 15: Regulatory information**

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

	3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Fluid, Fyrite, O2, 21% and 60%; Fluid, Fyrite, O2, 7% ; Hydrochloric acid
	3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Fluid, Fyrite, O2, 21% and 60%; Fluid, Fyrite, O2, 7%
Con	tains no substance on the REACH candidate list	

Contains no REACH Annex XIV substances

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### Water (7732-18-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)			
Zinc (7440-66-6)			

### Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Hydrochloric acid (7647-01-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Mercury chloride (HgCl2) (7487-94-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Alcohols, C7-9-iso-, C8-rich (68526-83-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.1.2. National regulations

No additional information available

#### **Chemical safety assessment** 15.2.

No chemical safety assessment has been carried out

<b>SECTION 16: Other informatio</b>	n
Date of Preparation or Latest Revision Data sources Other information	<ul> <li>7/12/2020</li> <li>Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.</li> <li>According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830</li> </ul>
Full Text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Resp. Sens. 1B	Respiratory sensitisation, Category 1B
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
07/42/2020 EN /Ex -li-t-	

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H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Indication of Changes No additional information available

### Abbreviations and Acronyms

Abbreviations and Acronyms	
ACGIH – American Conference of Governmental Industrial Hygienists	NDS - Najwyzsze Dopuszczalne Stezenie
ADN – European Agreement Concerning the International Carriage of	NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
Dangerous Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe
ADR - European Agreement Concerning the International Carriage of	NOAEL - No-Observed Adverse Effect Level
Dangerous Goods by Road	NOEC - No-Observed Effect Concentration
ATE - Acute Toxicity Estimate	NRD - Nevirsytinas Ribinis Dydis
BCF - Bioconcentration Factor	NTP – National Toxicology Program
BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
BOD – Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic
CAS No Chemical Abstracts Service Number	PEL - Permissible Exposure Limit
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008	pH – Potential Hydrogen
COD – Chemical Oxygen Demand	REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
EC – European Community	RID – Regulations Concerning the International Carriage of Dangerous Goods
EC50 - Median Effective Concentration	by Rail
EEC – European Economic Community	SADT - Self Accelerating Decomposition Temperature
EINECS – European Inventory of Existing Commercial Chemical Substances	SDS - Safety Data Sheet
EmS-No. (Fire) - IMDG Emergency Schedule Fire	STEL - Short Term Exposure Limit
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	STOT - Specific Target Organ Toxicity
EU – European Union	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
ErC50 - EC50 in Terms of Reduction Growth Rate	TEL TRK – Technical Guidance Concentrations
GHS – Globally Harmonized System of Classification and Labeling of Chemicals	ThOD – Theoretical Oxygen Demand
IARC - International Agency for Research on Cancer	TLM - Median Tolerance Limit
IATA - International Air Transport Association	TLV - Threshold Limit Value
IBC Code - International Bulk Chemical Code	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IMDG - International Maritime Dangerous Goods	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von
IPRV - Ilgalaikio Poveikio Ribinis Dydis	Gefahrstoffen in ortsbeweglichen Behältern
IOELV – Indicative Occupational Exposure Limit Value	TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
LC50 - Median Lethal Concentration	TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
LD50 - Median Lethal Dose	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
LOAEL - Lowest Observed Adverse Effect Level	TSCA - Toxic Substances Control Act
LOEC - Lowest-Observed-Effect Concentration	TWA - Time Weighted Average
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VOC – Volatile Organic Compounds
Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in	VLA-ED - Valor Límite Ambiental Exposición Diaria
a two-phase system consisting of two largely immiscible solvents, in this case	VLE – Valeur Limite D'exposition
octanol and water	VME – Valeur Limite De Moyenne Exposition
MAK – Maximum Workplace Concentration/Maximum Permissible	vPvB - Very Persistent and Very Bioaccumulative
Concentration	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollution	WGK - Wassergefährdungsklasse
EU GHS SDS 0099-1018 AND 0099-1019	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.