



according to Regulation (EC) No 1907/2006

# Molybdate wolframate reagent R Reag. Ph. Eur., chapter 4.1.1

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# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### 1.1. Product identifier

Molybdate wolframate reagent R Reag. Ph. Eur., chapter 4.1.1

GY1R-F1NE-C00N-R5WM

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at

industrial sites

Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Telephone: 0203/5194-107/117

Produktsicherheit

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Abteilung Produktsicherheit

Department:

1.4. Emergency For Hazardous Materials [or Dangerous Goods]

<u>telephone number:</u> Incidents Spill, Leak, Fire, Exposure, or

Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Acute Tox. 4: H332

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

bromine



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Signal word: Warning

Pictograms:





**Hazard statements** 

H290 May be corrosive to metals.

H332 Harmful if inhaled.

**Precautionary statements** 

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P390 Absorb spillage to prevent material damage.
P406 Store in a corrosion-resistant container with a

resistant inner liner.

#### 2.3. Other hazards

No data available

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

#### 3.2. Mixtures

# **Chemical characterization**

Mixtures in aqueous solution



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#### Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (I	EC) No 1272/2008)			
10102-2 5-7	sulfuric acid, dilithium salt, ı	monohydrate		10 - < 15 %	
	233-820-4				
	Acute Tox. 4, Eye Irrit. 2; H	302 H319	•		
10213-1 0-2	Natriumwolframat-Dihydrat			5 - < 10 %	
	236-743-4				
	Acute Tox. 4; H302	•	•		
7664-38 -2	phosphoric acid	5 - < 10 %			
	231-633-2	015-011-00-6	01-2119485924-24		
	Met. Corr. 1, Acute Tox. 4, H290 H302 H314 H318	Skin Corr. 1B, Eye Dam. 1;			
7647-01 -0	Hydrochloric acid			1 - < 5 %	
	231-595-7	017-002-01-X	01-2119484862-27		
	Skin Corr. 1B, STOT SE 3;	H314 H335	•		
7726-95 -6	bromine			< 1 %	
	231-778-1	035-001-00-5	01-2119461714-37		
	Acute Tox. 1, Skin Corr. 1A H314 H400	, Aquatic Acute 1; H330	•		

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Cond	c. Limits, M-factors and ATE	
10102-2	233-820	sulfuric acid, dilithium salt, monohydrate	10 - <
5-7	-4		15 %
	inhalation: L	C50 = > 2 mg/l (dusts or mists); dermal:	
	LD50 = > 300	00 mg/kg; oral: LD50 = 613 mg/kg	
10213-1	236-743	Natriumwolframat-Dihydrat	5 - < 10
0-2	-4		%
	dermal: LD5	0 = > 2000 mg/kg; oral: LD50 = 1539 mg/kg	
7664-38	231-633	phosphoric acid	5 - < 10
-2	-2		%
	oral: ATE =	500 mg/kg Skin Corr. 1B; H314: >= 25 -	
	100 Skin Irı	rit. 2; H315: >= 10 - < 25	
	2; H319: >= 1	10 - < 25	
7647-01	231-595	Hydrochloric acid	1 - < 5
-0	-7		%
	Skin Corr. 1B	8; H314: >= 25 - 100 Skin Irrit. 2;	
	H315: >= 10	- < 25 Eye Irrit. 2; H319: >= 10 - < 25	
	STOT SE 3;	H335: >= 10 - 100	
7726-95	231-778	bromine	< 1 %
-6	-1		
	inhalation: A	TE = 0,05 mg/l (vapours); inhalation:	
	ATE = 0,005	mg/l (dusts or mists) Aquatic Acute 1;	
	H400: M=100		

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

No data available

#### After inhalation

Provide fresh air.

Call a doctor if you feel unwell.

## After contact with skin

Wash immediately with: Water

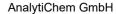
Take off immediately all contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.





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#### After inaestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Irritan

#### 4.3. Indication of any immediate medical attention and special

#### treatment needed

No data available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Hydrochloric gas

Sulphur oxides

**Bromine** 

Hydrogen bromide (HBr)

Phosphorus oxides

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective

clothing. Full protection suit.

Avoid contact with skin, eyes and clothes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not

allow entering drains or surface water.

Use water spray jet to protect personnel and to cool endangered

containers.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency

# procedures

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal





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protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers)

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation

have to be used.

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed

Use personal protection equipment. Use extractor hood (laboratory).

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

# Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before



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reuse

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed. storage temperature: +2°C - +8°C

#### Further information on storage conditions

Unsuitable container/equipment material: Metal

## 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters

# **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/c m³	- 3 ,	Origin
7726-95 -6	Bromine	0.1	0.7		TWA (8 h)	
7647-01 -0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	
7664-38 -2	Orthophosphoric acid	-	1		TWA (8 h)	
		-	2		STEL (15 min)	



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#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
10102-2 5-7	sulfuric acid, dilithium salt, monohydrate			
Worker DNEL,	long-term	inhalation	systemic	10 mg/m³
Worker DNEL,	long-term	dermal	systemic	95 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	10 mg/m³
Consumer DN	EL, long-term	dermal	systemic	95 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	9,5 mg/kg bw/day
10213-1 0-2	Natriumwolframat-Dihydrat			
Worker DNEL,	long-term	inhalation	systemic	3 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,85 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,9 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
7664-38 -2	phosphoric acid			
Worker DNEL,	acute	inhalation	local	2 mg/m³
Worker DNEL,	long-term	inhalation	local	2,92 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	4,57 mg/m³
Consumer DN	EL, long-term	inhalation	local	0,36 mg/m³
Consumer DN	EL, long-term	oral	systemic	0,1 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	10,7 mg/m³
7647-01 -0	Hydrochloric acid			
Worker DNEL,	long-term	inhalation	local	8 mg/m³
Worker DNEL,	acute	inhalation	local	15 mg/m³
Consumer DNEL, long-term		inhalation	local	8 mg/m³
Consumer DN	EL, acute	inhalation	local	15 mg/m³
7726-95 -6	bromine			
Worker DNEL,	long-term	inhalation	systemic	0,7 mg/m³
Worker DNEL,	acute	inhalation	systemic	0,7 mg/m³
Worker DNEL,	Worker DNEL, long-term		local	0,7 mg/m³

0,7 mg/m<sup>3</sup>

0,31 mg/l

0,034 mg/l

960 mg/kg

0,001 mg/l

0,001 mg/l



Worker DNEL, acute

**PNEC** values

# **Safety Data Sheet**

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inhalation

local

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CAS No	Substance		
Environmen	tal compartment	Value	
10102-2 5-7	sulfuric acid, dilithium salt, monohydrate		
Freshwater		13,5 mg/l	
Freshwater	(intermittent releases)	13,5 mg/l	
Marine wate	ır	1,35 mg/l	
Freshwater sediment		350,1 mg/kg	
Marine sedi	ment	35,01 mg/kg	
Micro-organ	isms in sewage treatment plants (STP)	182 mg/l	
Soil		64,77 mg/kg	
10213-1 0-2	Natriumwolframat-Dihydrat		
Freshwater		0,338 mg/l	

Marine sedime	Marine sediment	
Secondary poisoning		11 mg/kg
Micro-organisms in sewage treatment plants (STP)		5,86 mg/l
Soil		2,17 mg/kg
7726-95	bromine	
-6		

# 8.2. Exposure controls

Freshwater (intermittent releases)

Marine water

Freshwater

Marine water

Freshwater sediment

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

# Eye/face protection

Suitable eye protection: Face protection shield goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be





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chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 890 Vitoject® Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 890 Vitoject®
Recommended material: FKM (fluoro rubber) 0,7 mm
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

# Skin protection

Wear suitable protective clothing. Protective clothing acid-resistant

# **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: yellow
Odour: odourless

Melting point/freezing

No data available

point:

Boiling point or initial No data available

boiling point and boiling

range:

Flammability: not applicable



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Lower explosion limits:No data availableUpper explosion limits:No data availableFlash point:XAuto-ignitionNo data available

temperature:

Decomposition No data available

temperature:

pH-Value: 0.5

Viscosity / kinematic:

Water solubility:

No data available

No data available

Solubility in other solvents

not determined

Partition coefficient No data available

n-octanol/water:

Vapour pressure:No data availableVapour pressure:No data availableDensity:1,2328 g/cm³Bulk density:No data availableRelative vapourNo data available

density:

#### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

No data available

# Other safety characteristics

Evaporation rate: No data available Solvent separation No data available

test:

Solvent content:

Solid content:

No data available

No data available

Sublimation point:

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information
Corrosive to metals

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.





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#### 10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

#### 10.4. Conditions to avoid

Heat

#### 10.5. Incompatible materials

Keep away from: Metal.

The product develops hydrogen in an aqueous solution in contact with metals.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

#### **Further information**

No data available

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

# **Acute toxicity**

Harmful if inhaled.

#### **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 3,3330 mg/l



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CAS No	Chemical name									
	Exposure route	Dose	Species	Source	Method					
10102-2 5-7	sulfuric acid, dilithiui	sulfuric acid, dilithium salt, monohydrate								
	oral	LD50 613 mg/kg	Rat	Environ. I Health Persp. 106, Suppl. 2,	Only handbook or published data availabl					
	dermal	LD50 > 3000 mg/kg	Rabbit	Study report (1976)	OECD Guideline 402					
	inhalation (4 h) dust/mist	LC50 > 2 mg/l	Rat	Study report (1988)	OECD Guideline 403					
10213-1 0-2	Natriumwolframat-Dihydrat									
	oral	LD50 1539 mg/kg	Rat	Other company data (1999)	OECD Guideline 401					
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1999)	OECD Guideline 402					
7664-38 -2	phosphoric acid				·					
	oral	ATE 500 mg/kg								
7726-95 -6	bromine									
	inhalation vapour	ATE 0,05 mg/l								
	inhalation dust/mist	ATE 0,005 mg/l								

# Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the

classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the

classification criteria are not met.

slightly irritant but not relevant for classification.

# Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction





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Germ cell mutagenicity: Based on available data, the classification

criteria are not met.

Carcinogenicity: Based on available data, the classification

criteria are not met.

Reproductive toxicity: Based on available data, the classification

criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

# Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

#### 11.2. Information on other hazards

#### Other information

There are no data available on the mixture itself.

#### **Further information**

Irritant

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name								
	Aquatic toxicity	Dose	[h]	Species	Source	Method			
10102-2 5-7	sulfuric acid, dilithium salt, monohydrate								
	Acute fish toxicity	LC50 30,3 mg/l		Oncorhynchus mykiss	REACh Registrati on Dossier	OECD Guideline			
	Acute algae toxicity	ErC50 > 400 mg/l		Desmodesmus subspicatus	REACh Registrati on Dossier	203 OECD Guideline 201			
	Acute crustacea toxicity	EC50 33,2 mg/l		Daphnia magna	REACh Registrati on Dossier	OECD Guideline 202			
	Fish toxicity	NOEC 17,35 mg/l		Danio rerio	REACh Registrati on Dossier	OECD Guideline 210			
	Crustacea toxicity	NOEC 1,7 mg/l		Daphnia I magna	REACh Registrati on Dossier	OECD Guideline 211			
	Acute bacteria toxicity	EC50 180,8 mg/l ( )	3 1	activated sludge, domestic	REACh Registrati on Dossier	EU Method C.11			
10213-1 0-2	Natriumwolframat-D	ihydrat							
	Acute fish toxicity	LC50 > 200 mg/l		Danio rerio	REACh Registrati on Dossier	OECD Guideline 203			
	Acute algae toxicity	ErC50 > 17,7 mg/l		Pseudokirchn eriella subcapitata	REACh Registrati on Dossier	OECD Guideline 201			
	Acute crustacea toxicity	EC50 89,39 mg/l		Daphnia magna	Ecotoxicol ogy and Environmen tal Safety,	OECD Guideline 202			
	Fish toxicity	NOEC >= 9,8 mg/l		Danio rerio	REACh Registrati on Dossier	OECD Guideline 210			
	Crustacea toxicity	NOEC >= 85,1 mg/l		Daphnia I magna	REACh Registrati on Dossier	OECD Guideline 211			
	Acute bacteria toxicity	EC50 > 1000 mg/l (		activated sludge, domestic	REACh Registrati on Dossier	OECD Guideline 209			
7664-38 -2	phosphoric acid				,				



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	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	> 100		Daphnia magna	Study report (2010)	OECD Guideline 202
	Acute bacteria toxicity	EC50 1000 mg/l	>	3 h	activated sludge of a predominantl y domestic sewag	Study report (2010)	OECD Guideline 209
7647-01 -0	Hydrochloric acid						
	Acute fish toxicity	LC50 mg/l	862		Leuciscus idus		
7726-95 -6	bromine					·	
	Acute crustacea toxicity	EC50 mg/l	ca. 1	I	Daphnia magna	Bull. Environ. Contam. Toxicol., Vol. 24	The study authors employed standard acut

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
7726-95-	bromine	-1,49
6		

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
10102-25-	sulfuric acid,	11,42	Maize	REACh
7	dilithium salt,			Registration D
	monohydrate			
10213-10-	Natriumwolframat-Dihyd	> 0 - <	Poecilia	REACh
2	rat	1,23	reticulata	Registration D

# 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Do not empty into drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

**14.1. UN number or ID** UN 3264

number:

14.2. UN proper CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

shipping name: (Hydrochloric acid, phosphoric acid)

14.3. Transport hazard 8

class(es):

14.4. Packing group: Ш Hazard label: 8 Classification code: C1 **Special Provisions:** 274 Limited quantity: 5 I Excepted quantity: E1 Transport category: Hazard No: 80 Tunnel restriction Ε code:

Inland waterways transport (ADN)

**14.1. UN number or ID** UN 3264

number:

14.2. UN proper CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

shipping name: (Hydrochloric acid, phosphoric acid)

14.3. Transport hazard 8

class(es):

14.4. Packing group:
Hazard label:
Classification code:
Special Provisions:
Limited quantity:

111
8
C1
5
L





according to Regulation (EC) No 1907/2006

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Excepted quantity:

Marine transport (IMDG)

**14.1. UN number or ID** UN 3264

number:

14.2. UN proper CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

E1

shipping name: (Hydrochloric acid, phosphoric acid)

14.3. Transport hazard 8

class(es):

14.4. Packing group:IIIHazard label:8

Special Provisions: 223, 274
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID** UN 3264

number:

14.2. UN proper CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

shipping name: (Hydrochloric acid, phosphoric acid)

14.3. Transport hazard 8

class(es):

14.4. Packing group:IIIHazard label:8Special Provisions:A3 A803

Limited quantity 1 L

Passenger:

Passenger LQ: Y841 Excepted quantity: E1

IATA-packing instructions - 852

Passenger:

IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY No.

HAZARDOUS:

# **SECTION 15: Regulatory information**

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

#### for the substance or mixture

## **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75 Information according to Directive 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

#### **National regulatory information**



according to Regulation (EC) No 1907/2006

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Employment Observe restrictions to employment for restrictions: juveniles according to the 'juvenile work

protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12.

#### Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses

par Route

(European Agreement concerning the International Carriage of

Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of

Chemicals

EINECS: European Inventory of Existing Commercial Chemical

Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H332	Calculation method

#### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation

May be corrosive to metals.

H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

## **Further Information**

H290

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling





according to Regulation (EC) No 1907/2006

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of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Provide appropriate information, instructions and training to users

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)