

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 20.03.2018 Revision date: 21.09.2023 Supersedes version of: 20.03.2018 Version: 1.1

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

### 1.1. Product identifier

Product form : Mixture

Name : Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l) : Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l) Trade name

Product code

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

### 1.2.1. Relevant identified uses

Main use category : Reagent for water analysis

### 1.2.2. Uses advised against

No additional information available

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

labbox labware s.l.

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P.O. Box Barcelona (SPAIN)

08338 Premia de Dalt - SPAIN

ES

T +34 937 07 79 70 - F +34 937 909 532 info@labbox.com - www.labbox.com

### 1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1 Full text of H and EUH statements: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Contains : Sodium metabisulfite

Hazard statements (CLP) : H318 - Causes serious eye damage.

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Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

EUH-statements : EUH031 - Contact with acids liberates toxic gas.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# **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]
Sodium metabisulfite	CAS-No.: 7681-57-4 EC-No.: 231-673-0 EC Index-No.: 016-063-00-2 REACH-no: 05-2115526269-	1 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Ammonium heptamolybdate tetrahydrate	CAS-No.: 12054-85-2 EC-No.: 234-722-4 REACH-no: 05-2115967305- 41	1 – 5	Not classified

Full text of H and EUH statements: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Seek medical attention immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get immediate medical

advice/attention.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact : Get immediate medical advice/attention. Immediately rinse with water for a prolonged period

while holding the eyelids wide open. Remove contact lenses, if present and easy to do.

Continue rinsing.

First-aid measures after ingestion : Rinse mouth out with water. Give water to drink. Do NOT induce vomiting. Get medical

advice/attention.

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

No additional information available

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

Never give anything by mouth to an unconscious person.

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### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Making extinguishing agents environment-friendly.

Unsuitable extinguishing media : Strong water jet.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing.

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal. Clean contaminated surfaces

with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Additional hazards when processed : Avoid any direct contact with the product. Avoid the formation of mists in the atmosphere.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Store in a well-ventilated place. Keep container tightly closed.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible

materials.

### 7.3. Specific end use(s)

Reagent for water analysis.

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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

3.1.1 National occupational exposure and biological limit values		
Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³	
MAK (OEL TWA) [ppm]	10 ppm	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
OEL STEL	10 mg/m³	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	5 mg/m³	
KGVI (OEL STEL)	10 mg/m³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	5 mg/m³	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	5 mg/m³	
Estonia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	0,5 mg/m³	
France - Occupational Exposure Limits		
VME (OEL TWA)	5 mg/m³	
Greece - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	5 mg/m³	
OEL STEL	15 mg/m³	
Italy - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	4 mg/m³	
NDSCh (OEL STEL)	10 mg/m³	

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Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)			
Portugal - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Romania - Occupational Exposure Limits			
OEL TWA	2 mg/m³		
OEL STEL	5 mg/m³		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA) [1]	5 mg/m³		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	5 mg/m³		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA [1]	5 mg/m³		
WEL STEL	15 mg/m³		
Sodium metabisulfite (7681-57-4)			
France - Occupational Exposure Limits	France - Occupational Exposure Limits		
Local name	Métabisulfite de sodium		
VME (OEL TWA)	5 mg/m³		
Remark	Valeurs recommandées/admises		
Portugal - Occupational Exposure Limits			
Local name	Metabissulfito de sódio		
OEL TWA	5 mg/m³		
Spain - Occupational Exposure Limits			
Local name	Metabisulfito de sodio		
VLA-ED (OEL TWA) [1]	5 mg/m³		
Remark	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).		
United Kingdom - Occupational Exposure Limits			
Local name	Disodium disulphite		
WEL TWA [1]	5 mg/m³		
Ammonium heptamolybdate tetrahydrate (12054-85-2)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	4 mg/m³		
France - Occupational Exposure Limits			
Local name	Glycérine		
VME (OEL TWA)	10 mg/m³ (aérosols)		

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Ammonium heptamolybdate tetrahydrate (12054-85-2)		
Remark	Valeurs recommandées/admises	
Spain - Occupational Exposure Limits	Spain - Occupational Exposure Limits	
Local name	Glicerina	
VLA-ED (OEL TWA) [1]	10 mg/m³ nieblas	
United Kingdom - Occupational Exposure Limits		
Local name Glycerol		
WEL TWA [1]	10 mg/m³ mist	

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

### Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

## Eye protection:

Chemical goggles or safety glasses

# 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

### Hand protection:

protective gloves

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Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves					EN ISO 374

### 8.2.2.3. Respiratory protection

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

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

# 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour Yellow. Odour odourless. Odour threshold : Not available Melting point : Not available Freezing point : Not available **Boiling point** : Not available Flammability : Not available Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available : 3,5

pH : 3,5 pH solution : Not available

Viscosity, kinematic : Not applicable Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available : Not available Density Relative density : Not available Relative vapour density at 20 °C : Not applicable Particle size : Not available

# 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions of use.

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## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

No additional information available

## 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

## 10.6. Hazardous decomposition products

No additional information available

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation) :	Not classified	
Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)		
LD50 oral rat	3 g/kg	
LD50 oral	1310 mg/kg	
LD50 dermal rat	> 2000 µg/kg	
LC50 inhalation rat (mg/l)	> 42 g/m³	
Sodium chloride (7647-14-5)		
LD50 dermal rabbit	> 10000 mg/kg bodyweight Animal: rabbit	
Sodium metabisulfite (7681-57-4)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	> 5,5 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	
Ammonium heptamolybdate tetrahydrate (12054-85-2)		
LD50 oral rat	< 2000 mg/kg	

LD50 oral rat	< 2000 mg/kg
LD50 dermal rat	< 2000 mg/kg
LC50 inhalation rat (mg/l)	< 5 g/m³

Skin corrosion/irritation : Not classified pH: 3,5

pH 4,5 (4 – 5) 10%, 20° C

# Ammonium heptamolybdate tetrahydrate (12054-85-2)

pH 5 (50%, 20 °C)

Serious eye damage/irritation : Causes serious eye damage.

pH: 3,5

## Sodium metabisulfite (7681-57-4)

pH 4,5 (4 – 5) 10%, 20° C

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Ammonium heptamolybdate tetrahydrate (12054-85-2)	
рН	5 (50%, 20 °C)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## 11.2. Information on other hazards

# 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: Not applicable

### 11.2.2. Other information

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified

(acute)

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)			
LC50 - Fish [1]	4747 – 7824		
EC50 - Daphnia [1]	340,7 – 469,2		
Sodium chloride (7647-14-5)	Sodium chloride (7647-14-5)		
LC50 - Fish [1]	5840 mg/l Test organisms (species): Lepomis macrochirus		
LOEC (chronic)	441 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'		
NOEC (chronic)	314 mg/l Test organisms (species): Daphnia pulex Duration: '21 d'		
Sodium metabisulfite (7681-57-4)			
LC50 - Fish [1]	464 – 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Daphnia [1]	89 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	43,8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
NOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'		

# 12.2. Persistence and degradability

Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)	
Persistence and degradability	Product is biodegradable.

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Biodegradation 94 %

## 12.3. Bioaccumulative potential

## Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)

Bioaccumulative potential No bioaccumulation.

Sodium metabisulfite (7681-57-4)

Partition coefficient n-octanol/water (Log Pow) -3,7

## 12.4. Mobility in soil

### Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)

Ecology - soil Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

# Reagent ID 44 / Phosphate LR Nº2 (0 - 4 mg/l)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by

endocrine disrupting properties

: Not applicable.

### 12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Must follow special treatment according to local regulation.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

## 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : Not regulated

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**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

**ADN** 

Transport hazard class(es) (ADN) : Not regulated

**RID** 

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

### **Overland transport**

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

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

## **REACH Annex XVII (Restriction List)**

Contains no REACH substances with Annex XVII restrictions

### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

# **REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

### **PIC Regulation (Prior Informed Consent)**

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### **Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

#### **France**

Occupational diseases	
Code	Description
RG 66	Occupational rhinitis and asthma

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Ontwikkeling

### **Denmark**

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
EUH031	Contact with acids liberates toxic gas.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H318	Causes serious eye damage.

Safety Data Sheet (SDS), EU

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.