

SAFETY DATA SHEET (SDS)

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008, (EU) No. 453/2010

Revision Date 18-May

18-May-2015

WAI2 - EGHS - EUROPEAN

Revision Number 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product IdentifierProduct NamepH 4.01 BufferProduct Number(s)00654-00, 05942-21, 05942-22, 05942-24, 05942-25, 35653-01Pure substance/mixtureMixture1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended UseUse as laboratory reagentUses advised againstNo Information available

<u>1.4. Emergency telephone number</u> 888-358-4717 8:00 am - 6:00 pm CST

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Classification - Mixture

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

<u>Symbol(s)</u> Not dangerous goods

2.2. Label elements

Product Identifier Signal Word None

EUH210 - Safety data sheet available on request

P202 - Do not handle until all safety precautions have been read and understood

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	Chemical Formula	EC-No.	CAS-No	Weight %	DSD Classification - 67/548/EEC	CLP Classification - Regulation (EC) No 1272/2008	REACH Reg. No
Water	No information available	EEC No. 231-791-2	7732-18-5	90 - 100%	-		No information available
Potassium Hydrogen Phthalate	No information available	EEC No. 212-889-4	877-24-7	0 - 10%	-		No information available
Potassium Hydroxide	No information available	EEC No. 215-181-3	1310-58-3	0 - 10%	Xn; R22 C; R35	Acute Tox. 4 (H302) Skin Corr. 1A (H314)	No information available
Amaranth Red No. 27	No information available	EEC No. 213-022-2	915-67-3	0 - 10%	-		No information available

Note *The exact percentage (concentration) of composition has been withheld as a trade secret

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

Full text of H- and EUH-phrases: see section 16

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice	Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. Show this safety data sheet to the doctor in attendance.			
Eye Contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical attention.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician or Poison Control Center immediately.			
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.			
4.2. Most important symptoms and effects, both acute and delayed				
Most important symptoms/effects	No information available			
4.3. Indication of any immediate me	edical attention and special treatment needed			
Notes to Physician	Treat symptomatically			

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment. Evacuate personnel to safe areas.

6.2. Environmental precautions

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Environmental Precautions	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.	
6.3. Methods and material for contain	inment and cleaning up	
Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers	
Reference to Other Sections Refer to protective measures listed in 3 See Section 8 for information on appro	priate personal protective equipment	

See Section 12 for additional Ecological Information See Section 13 for additional waste treatment information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation, especially in confined areas.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from direct sunlight.

7.3. Specific end use(s)

Specific Use Laboratory reagent

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Component	European Union	The United Kingdom	France	Spain	Germany
Potassium Hydroxide 1310-58-3	-	STEL: 2 mg/m ³ 15 min	STEL / VLCT: 2 mg/m ³ .	STEL / VLA-EC: 2 mg/m ³ (15 minutos).	-
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Potassium Hydroxide 1310-58-3	-	Ceiling: 2 mg/m ³	-	STEL: 2 mg/m ³ 15 minuutteina Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Component	Austria	Switzerland	Poland	Norway	Ireland
Potassium Hydroxide 1310-58-3	MAK-TMW: 2 mg/m ³ 8 Stunden	TWA: 2 mg/m ³ 8 Stunden	STEL: 1 mg/m ³ 15 minutach TWA: 0.5 mg/m ³ 8 godzinach	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³ 15 min

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration No information available (PNEC)

8.2. Exposure controls

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Engineering Measures	Showers
	Eyewash stations
	Ventilation systems

Personal protective equipment

Eye/face Protection	Wear chemical splash goggles. If splashes are likely to occur, wear:. Face-shield.
Skin and body protection	Wear protective gloves/clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Light red
Odor	Odorless
Odor Threshold	No information available
pH Range	No information available

Property	Values
Melting point/freezing point	No information available
Boiling Point/Range	~ 100 °C / 212 °F
Flash Point (High in °C)	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Water Solubility	soluble
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition Temperature	
Decomposition Temperature	No information available
Kinematic Viscosity	No information available
Dynamic viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
9.2. Other information	
Softening Point	No information available
Molecular Weight	No information available
VOC Content(%)	No information available

Remarks • Method

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Density

Bulk Density

No information available

10.2. Chemical stability

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No Information available

No information available

Stable under normal conditions

Explosion Data

Sensitivity to Mechanica	I Impact No	ne
Sensitivity to Static Disc	harge No	ne

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Extremes of temperature and direct sunlight

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	No information available
Eye Contact	No information available
Skin Contact	No information available
Ingestion	No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	> 90 mL/kg (Rat)		
Potassium Hydrogen Phthalate	3200 mg/kg (Rat)		
Potassium Hydroxide	284 mg/kg (Rat)		

Skin Corrosion/Irritation	No information available
Serious eye damage/eye irritation	No information available
Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenic effects	No information available
Reproductive Effects	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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Component	Freshwater Algae	Freshwater Fish	Water Flea
Potassium Hydroxide	-	80 mg/L LC50 96 h	-

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

Component	log Pow
Potassium Hydroxide	0.83

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO 14.1 UN-No 14.2 Proper Shipping Name 14.3 Hazard Class Subsidiary Hazard Class 14.4 Packing Group 14.5 Marine Pollutant 14.6 Special Provisions 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Regulated Not Regulated Not Regulated Not Regulated Not Regulated Not Applicable None No information available
RID14.1UN-No14.2Proper Shipping Name14.3Hazard Class14.4Packing Group14.5Environmental hazard14.6Special ProvisionsADR14.114.1UN-No14.2Proper Shipping Name14.3Hazard Class	Not Regulated Not Regulated Not Regulated Not Regulated Not Applicable None Not Regulated Not Regulated Not Regulated

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14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None
ICAO	
14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
Subsidiary Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None
IATA	
14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None
-	

SECTION 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories	
USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances ENCS - Japanese Existing and New Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3 No information available

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Legend - SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	
Ceilina	

TWA (time-weighted average) Maximum limit value STEL

STEL (Short Term Exposure Limit) Skin designation

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

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