

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

## Alkalinity-P (BaCl2) Tablet Count

Revision date 11-29-2021 Revision Number 2

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

#### 1.1. Product identifier

Product Code(s) PPHAPBACL

Product Name Alkalinity-P (BaCl2) Tablet Count

Unique Formula Identifier (UFI) 6T32-FKJ4-8Y02-MHGM

**Pure substance/mixture** Mixture Contains Barium chloride (BaCl2), dihydrate

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

Recommended use Reagent for water analysis

Uses advised against Others

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

### **Manufacturer**

Water-I.D. GmbH Daimlerstr. 20

76344 Eggenstein, Germany

Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11

Website: www.water-id.com

EHS / Compliance: lab@water-id.com

## 1.4. Emergency telephone number

Emergency Telephone Poison Control Centre Munich

Tel.: +49 (0) 89 19 24 0

Germany

24 hours service

Languages: German, English

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

110941411011 (20) 110 121212000	
Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)

#### 2.2. Label elements

Contains Barium chloride (BaCl2), dihydrate



Signal word Danger

#### **Hazard statements**

H301 - Toxic if swallowed H332 - Harmful if inhaled

### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P312 - Call a POISON CENTER or doctor if you feel unwell

P501 - Dispose of contents/ container to an approved waste disposal plant

### **Additional information**

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

#### 2.3. Other hazards

Harmful to aquatic life.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Barium chloride (BaCl2), dihydrate 10326-27-9	70-90	No data available	-	Acute Tox. 3 (H301) Acute Tox. 4 (H332)			
Cellulose 9004-34-6	10-20	No data available	232-674-9	No data available			
Magnesium stearate 557-04-0	<1	No data available	209-150-3	No data available			

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

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Barium chloride (BaCl2), dihydrate 10326-27-9	118				

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Cellulose 9004-34-6	5000	2000	5.8		

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention immediately.

Remove to fresh air. If symptoms persist, call a doctor.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid breathing

dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See

section 8 for more information.

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

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing.

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

Note to doctors Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

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## SECTION 6: Accidental release measures

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

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal

protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid generation of dust. Ensure adequate ventilation.

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

General hygiene considerations Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using

this product.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Barium chloride (BaCl2),	TWA: 0.5 mg/m <sup>3</sup>				
dihydrate		STEL 2 mg/m <sup>3</sup>			
10326-27-9					
Cellulose	-	-	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
9004-34-6			_		TWA: 4 mg/m <sup>3</sup>

				1	STEL: 20 mg/m <sup>3</sup>
Magnesium steerste			TWA: 10 mg/m <sup>3</sup>		STEL. 20 mg/m²
Magnesium stearate 557-04-0	-	-		-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> Ceiling: 2.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	1
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> Peak: 4 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> *	TWA: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 5.00 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	-
Magnesium stearate 557-04-0	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 mg/m <sup>3</sup>	-	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6	-	-	-	-	TWA: 3 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Barium chloride (BaCl2), dihydrate 10326-27-9	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> STEL: STEL mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup>
Magnesium stearate 557-04-0	TWA: 10 mg/m <sup>3</sup>	-	-	-	TWA: 10 mg/m <sup>3</sup>
Chemical name	Sı	weden	Switzerland	Uni	ted Kingdom
Barium chloride (BaCl: dihydrate 10326-27-9	2), NGV:	0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/n STEL: 4 mg/m	n <sup>3</sup> TW	A: 0.5 mg/m <sup>3</sup>
Cellulose 9004-34-6		: 2 mg/m³	TWA: 3 mg/m <sup>-</sup>	TV STE	'A: 10 mg/m³ VA: 4 mg/m³ EL: 20 mg/m³ EL: 12 mg/m³
Magnesium stearate 557-04-0	NGV	: 5 mg/m³	-		-

# **Biological occupational exposure limits**

Chemical name	Denmark	Finland	France	Germany	Germany MAK
Barium chloride (BaCl2),	-	-	-	10 μg/L - BAR (end	-
dihydrate				of exposure or end	
10326-27-9				of shift) urine	
				10 μg/L - BAR (for	
				long-term	
				exposures: at the	
				end of the shift after	
				several shifts) urine	

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**Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

No information available. No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection No special protective equipment required.

No special protective equipment required. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

None known

None known

Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using General hygiene considerations

this product.

No information available. **Environmental exposure controls** 

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

9.1. Information on basic physical and chemical properties

Physical state Solid **Appearance** Powder Colour light pink Odour Odourless.

No information available **Odour threshold** 

Values Remarks • Method Property

No data available Melting point / freezing point None known Boiling point / boiling range No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** None known

No data available None known pН

No data available

No information available pH (as aqueous solution) Kinematic viscosity No data available None known Dynamic viscosity No data available None known No data available Water solubility None known No data available Solubility(ies) None known **Partition coefficient** No data available None known

Vapour pressure No data available Relative density No data available **Bulk density** No data available No data available **Liquid Density** 

No data available None known Relative vapour density

**Particle characteristics** 

No information available Particle Size No information available **Particle Size Distribution** 

## 9.2. Other information

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9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

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

Information on likely routes of exposure

**Product Information** 

Inhalation Specific test data for the substance or mixture is not available. Harmful by inhalation.

(based on components).

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Toxic if swallowed. (based Ingestion

on components).

Symptoms related to the physical, chemical and toxicological characteristics

Coughing and/ or wheezing. **Symptoms** 

Numerical measures of toxicity

**Acute toxicity** 

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The following values are calculated based on chapter 3.1 of the GHS document

135.20 mg/kg ATEmix (oral) ATEmix (dermal) 2,137.70 mg/kg ATEmix (inhalation-dust/mist) 1.66 mg/l

### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Barium chloride (BaCl2), dihvdrate	= 118 mg/kg (Rat)		
Cellulose	> 5 g/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5800 mg/m³ (Rat) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

No information available. Germ cell mutagenicity

Carcinogenicity No information available.

No information available. Reproductive toxicity

STOT - single exposure No information available.

No information available. STOT - repeated exposure

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

Harmful to aquatic life. **Ecotoxicity** 

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Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Barium chloride (BaCl2),	-	-	-	EC50: =14.5mg/L (48h,
dihydrate				Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment	
Barium chloride (BaCl2), dihydrate	The substance is not PBT / vPvB	

12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

# **SECTION 14: Transport information**

<u>IATA</u>

14.1 UN number or ID number UN1564

**14.2 UN proper shipping name** Barium compound, n.o.s.

**14.3 Transport hazard class(es)** 6.1 **14.4 Packing group** III

**Description** UN1564, Barium compound, n.o.s., 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A3, A82 ERG Code 6L

<u>IMDG</u>

Notes No components found suitable for Technical Name.

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**14.1 UN number or ID number** UN1564

**14.2 UN proper shipping name** Barium compound, n.o.s.

**14.3 Transport hazard class(es)** 6.1 **14.4 Packing group** III

**Description** UN1564, Barium compound, n.o.s., 6.1, III

14.5 Marine pollutant Ni

14.6 Special precautions for user

Special Provisions 177, 223, 274

EmS-No F-A, S-A No information available
7 Maritime transport in bulk No information available

14.7 Maritime transport in bulk according to IMO instruments

RID

Notes No components found suitable for Technical Name.

**14.1 UN number or ID number** UN1564

**14.2 UN proper shipping name** Barium compound, n.o.s.

14.3 Transport hazard class(es)6.114.4 Packing group

**Description** UN1564, Barium compound, n.o.s., 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** 177, 274, 513, 587

Classification code T:

<u>ADR</u>

Notes No components found suitable for Technical Name.

**14.1 UN number or ID number** UN1564

**14.2 UN proper shipping name** Barium compound, n.o.s.

**14.3 Transport hazard class(es)** 6.1 **14.4 Packing group** 

**Description** UN1564, Barium compound, n.o.s., 6.1, III, (E)

**14.5 Environmental hazards** Not applicable

14.6 Special precautions for user

**Special Provisions** 177, 274, 513, 587

Classification code T5
Tunnel restriction code (E)

# SECTION 15: Regulatory information

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

## National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Cellulose	RG 66	-
9004-34-6		

## **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.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

**International Inventories** 

**TSCA** Complies

DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Does not comply
IECSC Complies

KECL Does not comply

KECL Does not comply
PICCS Does not comply
AICS Does not comply

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China 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

Chemical Safety Report No information available

## **SECTION 16: Other information**

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

### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed H332 - Harmful if inhaled

### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 11-29-2021

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

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**