

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 01679 Issue date: 1/9/2024 Supersedes version of: 1/9/2024 Version: 1.0

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

#### **1.1. Product identifier**

Product form Trade name EC Index-No. EC-No. CAS-No. Product code Type of product Formula Chemical structure

:	Substance BARIUM CHLORIDE DIHYDRATE EXTRA PURE 056-004-00-8 233-788-1 10326-27-9 01679 Inorganic compound
:	BaCl2 · 2H2O
:	H <sub>2</sub> O
	CI-Ba-Cl
	H <sub>2</sub> O

#### Synonyms

: Barium dichloride Dihydrate, Barium muriate

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com

## 1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/200	8 [CLP]
Acute toxicity (oral), Category 3	H301
Acute toxicity (inhal.), Category 4	H332

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

## Adverse physicochemical, human health and environmental effects

Toxic if swallowed. Harmful if inhaled.

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
GHS06 : Danger		
: H301 - Toxic if swallowed.		
H332 - Harmful if inhaled.		
<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> </ul>		
: 00-6 (Executive Order No. 301 from 1993)		

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
BARIUM CHLORIDE DIHYDRATE	CAS-No.: 10326-27-9 EC-No.: 233-788-1 EC Index-No.: 056-004-00-8	100

# 3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation	<ul> <li>Call a physician immediately.</li> <li>Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.</li> </ul>	
First-aid measures after skin contact	: Wash with plenty of water/ Get immediate medical advice/attention. Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Call a physician immediately.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.	

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Symptoms/effects after eye contact	None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health
	hazard.

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Carbon dioxide. Dry powder. Foam. Water spray.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	<ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
6.1.1. For non-emergency personnel	6.1.1. For non-emergency personnel		
Protective equipment Emergency procedures	<ul> <li>Wear recommended personal protective equipment.</li> <li>Ventilate spillage area. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.		
6.2. Environmental precautions			

### Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.	
Methods for cleaning up	: Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed Precautions for safe handling	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions Packaging materials	<ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Store in a well-ventilated place. Keep container tightly closed. Store locked up.</li> <li>Store always product in container of same material as original container.</li> </ul>	

7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

No additional information available

## 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:

Wear recommended personal protective equipment. Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

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#### 8.2.2.2. Skin protection

Skin and body protection:

Wear a mask

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:** Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state Colour Appearance Molecular mass Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH pH solution concentration Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density	<ul> <li>Solid</li> <li>White powder.</li> <li>Crystalline powder or crystals. Chunks.</li> <li>244.28 g/mol</li> <li>Odourless.</li> <li>Not available</li> <li>960 °C</li> <li>Not applicable</li> <li>1560 °C</li> <li>Not applicable</li> <li>Soft available</li> <li>5.2 - 8.2 at 25 °C</li> <li>5 %</li> <li>Not applicable</li> <li>Water: 35.8 g/100ml at 20 °C - soluble</li> <li>Not available</li> </ul>
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## 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

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

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### **10.5. Incompatible materials**

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as de	fined in Regulation (EC) No 1272/2008	
Acute toxicity (oral)	: Toxic if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Harmful if inhaled.	
Skin corrosion/irritation	: Not classified pH: 5.2 – 8.2 at 25 °C	
Serious eye damage/irritation	Not classified	
	pH: 5.2 – 8.2 at 25 °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	
BARIUM CHLORIDE DIHYDRATE EXTRA	PURE (10326-27-9)	
Viscosity, kinematic	Not applicable	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
No additional information available		
11.2.2. Other information		
Potential adverse human health effects and symptoms	: Toxic if swallowed.	
SECTION 12: Ecological information		

## 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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(acute)	Not classified	
Hazardous to the aquatic environment, long–term : (chronic)	Not classified	
12.2. Persistence and degradability		
BARIUM CHLORIDE DIHYDRATE EXTRA PUR	E (10326-27-9)	
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional waste regulation	: Disposal must be done according to official regulations.	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	<ul> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.</li> </ul>	
Additional information	: Do not re-use empty containers.	
Ecological information	: Hazardous waste due to toxicity.	

# **SECTION 14: Transport information**

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

UN-No. (ADR)	: UN 1564
UN-No. (IMDG)	: UN 1564
UN-No. (IATA)	: UN 1564
UN-No. (ADN)	: UN 1564
UN-No. (RID)	: UN 1564
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (IMDG)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (IATA)	: Barium compound, n.o.s.
Proper Shipping Name (ADN)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (RID)	: BARIUM COMPOUND, N.O.S.
Transport document description (ADR)	: UN 1564 BARIUM COMPOUND, N.O.S. (BARIUM CHLORIDE DIHYDRATE), 6.1, III, (E)

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Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	: UN 1564 Barium compound, n.o.s. (BARIUM CHLORIDE DIHYDRATE), 6.1, III : UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III : UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III
14.3. Transport hazard class(es)	
<b>ADR</b> Transport hazard class(es) (ADR) Danger labels (ADR)	: 6.1 : 6.1 :
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 6.1 : 6.1 :
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	: 6.1 : 6.1 : 6
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 6.1 : 6.1 :
<b>RID</b> Transport hazard class(es) (RID) Danger labels (RID)	: 6.1 : 6.1 :
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III
14.5. Environmental hazards	

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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# 14.6. Special precautions for user

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Over	and	tran	isp	ort

Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR)	: T5 : 177, 274, 513, 587 : 5kg : E1
Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR)	: 5kg
Excepted quantities (ADR) Packing instructions (ADR)	•
Packing instructions (ADR)	· E1
,	. LI
Special packing provisions (ADR)	: P002, IBC08, LP02, R001
	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions	: TP33
(ADR)	
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading	
and handling (ADR)	,
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	
	60
	1564
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
Transport by sea	
Special provisions (IMDG)	: 177, 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDC)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: White powder, lumps or crystals. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 154
MFAG-NO	. 154
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A3, A82
ERG code (IATA)	: 6L
/ /	
Inland waterway transport	
Classification code (ADN)	: T5
Special provisions (ADN)	: 177, 274, 513, 587, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
	: 0
Number of blue cones/lights (ADN)	

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Rail transport		
Classification code (RID)	:	Т5
Special provisions (RID)	:	177, 274, 513, 587
Limited quantities (RID)	:	5kg
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	B3
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	T1
Portable tank and bulk container special provisions	:	TP33
(RID)		
Tank codes for RID tanks (RID)	:	SGAH, L4BH
Special provisions for RID tanks (RID)	:	TU15
Transport category (RID)	:	2
Special provisions for carriage – Bulk (RID)	:	VC1, VC2, AP7
Special provisions for carriage - Loading, unloading	:	CW13, CW28, CW31
and handling (RID)		
Colis express (express parcels) (RID)	:	CE11
Hazard identification number (RID)	:	60

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)**

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

# PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

## POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 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

#### Germany

Water hazard class (WGK)

: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

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Chemicals Prohibition Ordinance (ChemVerbotsV) Hazardous Incident Ordinance (12. BImSchV)	<ul> <li>This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).</li> <li>Is not subject of the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	<ul> <li>The substance is not listed</li> </ul>
Denmark	
MAL code Danish National Regulations	<ul> <li>: 00-6 (Executive Order No. 301 from 1993)</li> <li>: Young people below the age of 18 years are not allowed to use the product</li> </ul>

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	

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Abbreviations and acronyms:	
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
H301	Toxic if swallowed.
H332	Harmful if inhaled.

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.