Violet Red Bile Agar (VRBA)

Safety Data Sheet

according to the DENR EMB MC 2015-011 and DAO 2015-09 Guidance Manual
Issue date: 01/10/2025 Revision date: 29/10/2026 Supersedes: 08/10/2025 Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Trade name : Violet Red Bile Agar (VRBA)
Name : Violet Red Bile Agar (VRBA)
Product code NCM0025

1.2. Other means of identification

Part Number(s) : NCM0025|400000751|700003032|NCM0025A|700003033|NCM0025B|700003034|NCM0025C

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Scientific research and development,Laboratory chemicals

1.4. Supplier's details

Manufacturer
Neogen Corporation
620 Lesher Place Lansing 48912 Michigan United States of America
T 800.234.5333
sds@neogen.com - https://www.neogen.com/

1.5. Emergency telephone number

Emergency number : 24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified

2.2. Label elements

No additional information available

2.3. Other hazards

No additional information available

SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS PH classification
Agar, powdered	CAS-No.: 9002-18-0	≥ 25 – < 50	Not classified
Lactose, anhydrous	CAS-No.: 63-42-3	≥ 15 – < 25	Not classified
Gelatin peptone	CAS-No.: 91079-43-5	≥ 15 – < 25	Not classified
Sodium chloride	CAS-No.: 7647-14-5	≥ 10 – < 15	Not classified
Yeast extract	CAS-No.: 8013-01-2	≥ 10 – < 15	Not classified

Name	Product identifier	%	GHS PH classification
Sodium cholate	CAS-No.: 361-09-1	≥ 1 – < 5	Not classified
Sodium deoxycholate	CAS-No.: 302-95-4	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 STOT SE 3, H335
Growth promoter	-	≥ 0.5 – < 1	Not classified
Sodium carbonate	CAS-No.: 497-19-8	≥ 0.1 – < 0.5	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314 Eye Dam. 1, H318
Neutral red	CAS-No.: 553-24-2	< 0.1	Not classified
Crystal violet	CAS-No.: 548-62-9	< 0.1	Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Carc. 1B, H350 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

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

Symptoms/effects after inhalation : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion : None under normal conditions.

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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

Protective equipment	:	Wear recommended personal protective equipment.
Emergency procedures	:	Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	:	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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Keep in a cool, well-ventilated place away from heat.
Storage conditions	:	Keep cool. Protect from sunlight.
Storage temperature	:	2 – 30 °C
Packaging materials	:	Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation of the work station.

8.4. Personal protective equipment

Personal protective equipment:
Wear recommended personal protective equipment.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



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	:	Solid
Appearance	:	Powder.
Colour	:	Light red
Odour	:	Characteristic
Odour threshold	:	No data available
pH	:	7.2 – 7.6
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability	:	Non flammable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	No data available
Upper explosive limit (UEL)	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	:	Stable under normal conditions
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7)
Incompatible materials	:	No additional information available
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

11.1. Acute toxicity

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

Agar, powdered (9002-18-0)	
LD50 oral rat	11000 mg/kg (Rat, Oral)

Lactose, anhydrous (63-42-3)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)

Sodium chloride (7647-14-5)	
LD50 oral rat	> 3980 mg/kg bodyweight (Rat, Experimental value, 20 % aqueous solution, Oral)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)
LC50 Inhalation - Rat	> 42 mg/l air (1 h, Rat, Male, Experimental value, 20 % aqueous solution, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex

Growth promoter	
LD50 oral rat	> 4000 mg/kg (Rat, Oral)

Sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	2800 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500.40, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.2 mg/l/4h

Crystal violet (548-62-9)	
LD50 oral rat	670 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	180 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)

Sodium cholate (361-09-1)	
LD50 oral	2400 mg/kg bodyweight Animal: mouse

Sodium deoxycholate (302-95-4)	
LD50 oral rat	1370 mg/kg (Rat, Oral)

Skin corrosion/irritation	:	Not classified. pH: 7.2 – 7.6
Serious eye damage/irritation	:	Not classified

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Crystal violet (548-62-9)	
NOAEL (chronic, oral, animal/male, 2 years)	225 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:
NOAEL (chronic, oral, animal/female, 2 years)	100 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified
STOT - single exposure : Not classified

Sodium deoxycholate (302-95-4)	
STOT - single exposure	May cause respiratory irritation.

STOT - repeated exposure : Not classified
Aspiration hazard : Not classified

Violet Red Bile Agar (VRBA)	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short–term (acute) : Not classified.
Hazardous to the aquatic environment, long–term (chronic) : Not classified.

Lactose, anhydrous (63-42-3)	
LC50 - Fish [1]	4625198 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	283000000 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-5.03 (Estimated value, KOWWIN)

Sodium chloride (7647-14-5)	
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
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'

Yeast extract (8013-01-2)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna

Growth promoter	
LC50 - Fish [1]	15500 mg/l (96 h, Gambusia affinis, Anhydrous form)
EC50 - Crustacea [1]	1700 mg/l (24 h, Daphnia magna, Anhydrous form)
EC50 72h - Algae [1]	2700 mg/l (Scenedesmus subspicatus, Anhydrous form)

Sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	200 – 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect)

Sodium carbonate (497-19-8)	
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 96h - Algae [1]	242 mg/l Source: ECOTOX
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation

Neutral red (553-24-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.33 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.097 – 4.572 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Crystal violet (548-62-9)	
LC50 - Fish [1]	0.082 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	0.24 – 0.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [2]	0.53 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.21 mg/l Source: ECHA
EC50 72h - Algae [2]	0.025 – 0.8 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	0.025 – 0.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
BCF - Fish [1]	3 (Pisces, Fresh water, Weight of evidence, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.172 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.785 (log Koc, Experimental value)

Sodium cholate (361-09-1)	
LC50 - Fish [1]	45356.434 mg/l Source: Ecological Structure Activity Relationships
EC50 - Other aquatic organisms [1]	35.8713 mg/l Test organisms (species):
EC50 72h - Algae [1]	169.7059 mg/l Test organisms (species):
EC50 96h - Algae [1]	22734.682 mg/l Source: Ecological Structure Activity Relationships
Partition coefficient n-octanol/water (Log Pow)	-0.29 (Calculated, KOWWIN)

Sodium deoxycholate (302-95-4)	
LC50 - Fish [1]	1592.185 mg/l Source: ECOSAR
EC50 96h - Algae [1]	968.709 mg/l Source: ECOSAR
Partition coefficient n-octanol/water (Log Pow)	1.24 (Estimated value)

12.2. Persistence and degredability

Violet Red Bile Agar (VRBA)	
Persistence and degradability	Not rapidly degradable

Agar, powdered (9002-18-0)	
Persistence and degradability	Biodegradability in water: no data available.

Lactose, anhydrous (63-42-3)	
Persistence and degradability	Readily biodegradable in water.

Gelatin peptone (91079-43-5)	
Persistence and degradability	Not rapidly degradable

Sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Yeast extract (8013-01-2)	
Persistence and degradability	Not rapidly degradable

Growth promoter	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Neutral red (553-24-2)	
Persistence and degradability	Not readily biodegradable in water.

Crystal violet (548-62-9)	
Persistence and degradability	Not readily biodegradable in water.

Sodium cholate (361-09-1)	
Persistence and degradability	Not readily biodegradable in water.

Sodium deoxycholate (302-95-4)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Violet Red Bile Agar (VRBA)	
Bioaccumulative potential	No additional information available

Agar, powdered (9002-18-0)	
Bioaccumulative potential	No bioaccumulation data available.

Lactose, anhydrous (63-42-3)	
Partition coefficient n-octanol/water (Log Pow)	-5.03 (Estimated value, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.

Sodium chloride (7647-14-5)	
Bioaccumulative potential	Not bioaccumulative.

Growth promoter	
Bioaccumulative potential	No bioaccumulation data available.

Sodium carbonate (497-19-8)	
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation

Sodium carbonate (497-19-8)	
Bioaccumulative potential	Not bioaccumulative.

Neutral red (553-24-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.33 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.097 – 4.572 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Bioaccumulative potential	Not bioaccumulative.

Crystal violet (548-62-9)	
BCF - Fish [1]	3 (Pisces, Fresh water, Weight of evidence, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.172 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.785 (log Koc, Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Sodium cholate (361-09-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.29 (Calculated, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.

Sodium deoxycholate (302-95-4)	
Partition coefficient n-octanol/water (Log Pow)	1.24 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Violet Red Bile Agar (VRBA)	
Mobility in soil	No additional information available

Agar, powdered (9002-18-0)	
Ecology - soil	No (test)data on mobility of the substance available.

Lactose, anhydrous (63-42-3)	
Partition coefficient n-octanol/water (Log Pow)	-5.03 (Estimated value, KOWWIN)

Sodium chloride (7647-14-5)	
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)
Ecology - soil	No (test)data on mobility of the substance available.

Sodium carbonate (497-19-8)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	-6.19 Source: Quantitative Structure Activity Relation
Ecology - soil	Low potential for adsorption in soil.

Neutral red (553-24-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.33 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.097 – 4.572 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.

Crystal violet (548-62-9)	
Surface tension	44.2 mN/m (1 %)
Partition coefficient n-octanol/water (Log Pow)	1.172 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.785 (log Koc, Experimental value)
Ecology - soil	Adsorbs into the soil.

Sodium cholate (361-09-1)	
Mobility in soil	1140 Source: Quantitative Structure Activity Relation
Partition coefficient n-octanol/water (Log Pow)	-0.29 (Calculated, KOWWIN)
Ecology - soil	Highly mobile in soil.

Sodium deoxycholate (302-95-4)	
Partition coefficient n-octanol/water (Log Pow)	1.24 (Estimated value)
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse affects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal consideration

Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated	Not regulated	Not applicable
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not applicable
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not applicable
14.4. Packing group		
Not regulated	Not regulated	Not applicable
14.5. Environmental hazards		
Not regulated	Not regulated	Not applicable
No supplementary information available		

14.6. Special precautions for user

UN RTDG
Not applicable

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Priority Chemical List (PCL) and Chemical Control Orders (CCO)		
Initial List of Single Substances and Compounds Covered under Chemical Control Order (CCO) and Priority Chemical List (PCL) DENR Administrative Order 2015-09	Not applicable	
Priority Chemical List DENR Administrative Order 2005-27	Not applicable	
Chemical Control Orders	Not applicable	
Chemical Control Order for Ozone Depleting Substances	Not applicable	

Others		
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Applicable	AGAR (9002-18-0) D-Glucose, 4-O-.beta.-D-galactopyranosyl- (63-42-3) SODIUM CHLORIDE (7647-14-5) EXTRACT, YEAST (8013-01-2) Growth promoter Carbonic acid disodium salt (497-19-8) 2,8-Phenazinediamine, N8,N8,3-trimethyl-, monohydrochloride (553-24-2) CRYSTAL VIOLET (548-62-9)
Controlled Chemical for Manufacture of Explosives or Explosives Ingredients (Decree No. 1866)	Not applicable	
Comprehensive Dangerous Drugs Act of 2002	Not applicable	
Fertilizers and Pesticides Regulation (Decree No. 1144)	Not applicable	
Food Additives Regulation	Additives approved only for use as food processing	Agar, powdered (9002-18-0) Sodium carbonate (497-19-8)
	Additives approved only for limited number of food categories	LACTOSE (63-42-3)
	Enzymes permitted for use in food	Sodium chloride (7647-14-5)
Management of Hazardous Waste (Republic Act No. 6969)	Not applicable	
Philippines Clean Air Act	Not applicable	

Others		
High Volume Chemicals List	Applicable	Sodium chloride (7647-14-5) Sodium carbonate anhydrous (497-19-8)

15.2. International regulations

No additional information available

SECTION 16: Other information

Version	:	3.0
Issue date	:	01/10/2025
Revision date	:	29/10/2026
Supersedes	:	08/10/2025

Safety Data Sheet (SDS), Philippines

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.