

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: E0509 Issue date: 27/05/2024 Revision date: 23/05/2024 Supersedes version of: 08/12/2017 Version: 3.0

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

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

Product form Trade name IUPAC name EC-No.	<ul> <li>Substance</li> <li>Ethylenediaminetetraacetate (EDTA) ferric sodium</li> <li>2,2',2'',2'''-(Ethane-1,2-diyldinitrilo)tetraacetic acid</li> <li>239-802-2</li> </ul>
CAS-No.	: 15708-41-5
REACH registration No.	: 01-2119496228-27
Product code	: E0509
Formula	: C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>8</sub> FeNa
Product group	: Raw material
Other means of identification	: Ferric sodium EDTA

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

## 1.2.1. Relevant identified uses

Main use category
Industrial/Professional use spec

: Professional use, Industrial use

: For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

### 1.2.2. Uses advised against

No additional information available

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

#### Distributor

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

#### **1.4. Emergency telephone number**

Emergency number

: Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00)

+31(0)6-30008100 (outside office hours)

Country	Organisation/Company	Address	Emergency number	Comment
	World Health Organization world directory of poison centres	http://apps.who.int/poiso ncentres/		Consult website for a local poison centre
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

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Country	Organisation/Company	Address	Emergency number	Comment
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Not classified

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
Ethylenediaminetetraacetate (EDTA) ferric sodium	CAS-No.: 15708-41-5 EC-No.: 239-802-2 REACH-no: 01- 2119496228-27	100

## 3.2. Mixtures

Not applicable

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

4.1. Description of first aid measured	ures
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Allow affected person to breathe fresh air.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Give water to drink. Seek medical attention if ill effect or irritation develops. Call a poison center or a doctor if you feel unwell.</li> </ul>

### 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

Treat symptomatically.

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SECTION 5: Firefighting mea	sures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from	n the substance or mixture
Hazardous decomposition products in ca	se of : Toxic fumes may be released COx NOx.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul> <li>Prevent fire fighting water from entering the environment.</li> <li>Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus. Complete protective clothing.</li> </ul>
SECTION 6: Accidental release	se measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
General measures	: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing.

#### **6.1.2.** For emergency responders

Measures in case of dust release

Protective equipment

Emergency procedures

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

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up			
	<ul><li>Mechanically recover the product. Sweep up dry powder and dispose properly.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>		

: Ventilate spillage area.

: Avoid dust formation.

## **6.4.** Reference to other sections

For further information refer to section 8.

SECTION 7: Handling and storage				
7.1. Precautions for safe hand	lling			
Precautions for safe handling	: Wear personal protective equipment. Ensure good ventilation of the work station. Avoid dust formation. Handle in accordance with good industrial hygiene and safety procedures.			
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	ge, including any incompatibilities			
Storage conditions	: Store at room temperature. Store in a well-ventilated place. Keep cool.			
73 Specific and use(s)				

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

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## 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

Ethylenediaminetetraacetate (EDTA) ferric sodium (15708-41-5)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	74 mg/m <sup>3</sup>		
Acute - local effects, inhalation	74 mg/m <sup>3</sup>		
Long-term - systemic effects, dermal	4200 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	2 mg/m <sup>3</sup>		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0,42 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	0,5 mg/m <sup>3</sup>		
Long-term - systemic effects, dermal	2100 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	3,1 mg/l		
PNEC aqua (marine water)	0,31 mg/l		
PNEC aqua (intermittent, freshwater)	1,09 mg/l		
PNEC (STP)			
PNEC sewage treatment plant	64 mg/l		

## 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

### 8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Dust		EN 166

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## 8.2.2.2. Skin protection

#### Skin and body protection:

In case of possible repeated skin contact wear protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11		EN ISO 374

#### 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type P1	Dust protection	EN 143

## 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	: Solid	
Colour	: Yellow.	
Appearance	: Powder.	
Molecular mass	: 367 g/mol	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: 80 °C	
Freezing point	: Not applicable	
Boiling point	: Not available	
Flammability	: Non flammable.	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
рН	: 4 – 5,5	
pH solution concentration	: 1 %	
Viscosity, kinematic	: Not applicable	
Solubility	: Water: 90 g/l 20°C	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: 1,78 g/cm <sup>3</sup> Type: 'density' Temp.: 20 °C	
Relative density	: 1,7808 Type: 'relative density' Temp.: 20 °C	
Relative vapour density at 20°C	: Not applicable	
Particle size	: Not available	

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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

## 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

Strong oxidizers.

### **10.6.** Hazardous decomposition products

When heated to decomposition, emits dangerous fumes: - NOx. - COx.

## **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

## Ethylenediaminetetraacetate (EDTA) ferric sodium (15708-41-5)

Ethylenediaminetetraacetate (EDTA) ferric sodium (15708-41-5)		
LD50 oral rat	<ul> <li>&gt; 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD</li> <li>Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU</li> <li>Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)</li> </ul>	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
LC50 Inhalation - Rat	> 2,75 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))	
Skin corrosion/irritation	: Not classified pH: 4 – 5,5	
Serious eye damage/irritation	: Not classified pH: 4 – 5,5	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	

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Ethylenediaminetetraacetate (EDTA) ferr	ic sodium (15708-41-5)
NOAEL (animal/male, F0/P)	500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Ethylenediaminetetraacetate (EDTA) ferr	ic sodium (15708-41-5)
NOAEL (oral, rat, 90 days)	<ul> <li>&gt; 84 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD</li> <li>Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents),</li> <li>Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)</li> </ul>
Aspiration hazard	: Not classified
Ethylenediaminetetraacetate (EDTA) ferr	ic sodium (15708-41-5)
Viscosity, kinematic	Not applicable
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	: The substance/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 at a concentration equal to or greater than 0,1 %

### 11.2.2. Other information

No additional information available

## **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.
Hazardous to the aquatic environment, : short-term (acute)	Not classified
Hazardous to the aquatic environment, long- : term (chronic)	Not classified
Ethylenediaminetetraacetate (EDTA) ferric	sodium (15708-41-5)
LC50 - Fish [1]	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	100,9 mg/l Daphnia Magna
EC50 72h - Algae [1]	69,9 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 25,7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

## 12.2. Persistence and degradability

No additional information available

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## 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**

Adverse effects on the environment caused by endocrine disrupting properties	: The substance/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 at a concentration equal to or greater than 0,1 %.
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## 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID	number	
Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	ng name	
Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)	
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards	
Not applicable	Not applicable	Not applicable
No supplementary information available		

## 14.6. Special precautions for user

## **Overland transport**

Not applicable

## Transport by sea

Not applicable

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## Air transport

Not applicable

### 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)

### 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)		WGK 2, Significantly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 2780).
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	The substance is not listed
SZW-lijst van reprotoxische stoffen –		The substance is not listed
Vruchtbaarheid	•	
SZW-lijst van reprotoxische stoffen –	:	The substance is not listed
Ontwikkeling		
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#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## **SECTION 16: Other information**

Indication of changes				
Section	Changed item	Change	Comments	
	Flammability	Added		
	Revision date	Modified		
	Supersedes	Modified		
	Concentration of the solution used for the pH measurement	Added		
	Substance type	Added		
	NOAEL (animal/male, F0/P)	Added		
	Regulatory framework	Added		
1.1	Other means of identification	Added		
1.1	Product group	Added		
1.1	Formula	Modified		
1.2	Main use category	Modified		
2.1	Adverse physicochemical, human health and environmental effects	Added		
4.1	First-aid measures after skin contact	Modified		
4.1	First-aid measures after ingestion	Modified		
4.1	First-aid measures after eye contact	Modified		
4.3	Other medical advice or treatment	Added		
5.1	Suitable extinguishing media	Modified		
5.2	Hazardous decomposition products in case of fire	Modified		
5.3	Protection during firefighting	Modified		
6.1	Protective equipment	Added		
6.1	Emergency procedures	Added		
6.3	Other information	Added		
6.3	Methods for cleaning up	Modified		
6.4	Reference to other sections (8, 13)	Added		
7.1	Hygiene measures	Added		
7.1	Precautions for safe handling	Modified		
7.2	Storage conditions	Modified		
8.1	PNEC sewage treatment plant	Added		
8.1	PNEC aqua (marine water)	Added		
8.1	PNEC aqua (intermittent, freshwater)	Added		
8.1	PNEC aqua (freshwater)	Added		
8.1	Long-term - systemic effects,oral	Added		

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Section	Changed item	Change	Comments
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, dermal	Added	
8.1	Long-term - systemic effects, dermal	Added	
8.1	Acute - systemic effects, inhalation	Added	
8.1	Acute - local effects, inhalation	Added	
8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Added	
8.2	Skin and body protection	Modified	
9.1	Viscosity, kinematic	Added	
9.1	Freezing point	Added	
9.1	рН	Added	
9.1	Flash point	Added	
9.1	Explosive limits (vol %)	Added	
9.1	Auto-ignition temperature		
9.1	Relative density	Added	
9.1	Density	Added	
10.1	Reactivity	Added	
10.3	Possibility of hazardous reactions	Added	
10.4	Conditions to avoid	Added	
10.6	Hazardous decomposition products	Modified	
11.1	NOAEL (oral, rat, 90 days)	Added	
11.1	LC50 Inhalation - Rat	Added	
11.1	LD50 oral rat	Modified	
11.1	LD50 dermal rat	Added	
12.1	Ecology - general	Added	
12.1	NOEC chronic fish	Added	
12.1	NOEC (chronic)	Added	
12.1	LOEC (chronic)	Added	
13.1	Waste treatment methods	Modified	
15.2	Chemical safety assessment	Added	
16	Abbreviations and acronyms	Modified	

Abbreviations and acronyms:		
ATE Acute Toxicity Estimate		
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road		

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Abbreviations and acronyms:	
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
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
РВТ	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
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

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Abbreviations and acronyms:		
ED	Endocrine disrupting properties	
Data sources	: ECHA (European Chemicals Agency). Supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	

Safety Data Sheet (SDS), EU Duchefa 2023

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.