

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 9/17/2019 Revision date: 12/9/2020 Supersedes version of: 9/17/2019 Version: 1.2

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

1.1. Product identifier

Product form Trade name Product code	:	Mixture AlphaChem Boardfix FR X5BOARD
Type of product	:	Builders
Vaporizer Product group		Aerosol Blend

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

1.2.1. Relevant identified uses

Main use category	: Professional use,Industrial use
Use of the substance/mixture	: Bonding foam fire rated for bonding plasterboards to walls
Use of the substance/mixture	: Adhesives, binding agents
Function or use category	: Adhesives, binding agents
1.2.2. Uses advised against	

Restrictions on use

: Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Downstream user

Cromar Building Products Units 3, 4, 5 Northside Ind Park Selby Rd DN14 0GH Whitley Bridge - United Kingdom T 01977 663133 - F 01977 662186 www.cromarbuildingproducts.com

1.4. Emergency telephone number

Emergency number

: 01977 663133 (Business hours only Mon-Fri 9am-5pm)

Country	Organisation/Company	Address	Emergency number	Comment
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)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

H222;H229
H332
H315
H319
H334
H317
H351

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reproductive toxicity, Additional category, Effects on or via lactation	H362
Specific target organ toxicity — Single exposure, Category 3,	H335
Respiratory tract irritation	
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP) Contains Hazard statements (CLP) : Danger

GHS02

- : 4,4 Diphenylmethanediisocyanate; ALKANES, C14-17, CHLORO
- : H222 Extremely flammable aerosol.
 - H229 Pressurised container: May burst if heated.

GHS07

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS08

GHS09

- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P263 - Avoid contact during pregnancy and while nursing. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P334+P313 - If skin irritation occurs: Get medical advice/attention. P334+P313 - If skin irritation occurs: Get medical advice/attention. P334+P313 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P364+P333 - Store in a well-ventilated place. Keep container tightly closed. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with lo
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.

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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4 Diphenylmethanediisocyanate	(CAS-No.) 9016-87-9 (EC-No.) 618-498-9 (REACH-no) 01-2119457014-47	40 – 60	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
TCPP (mixed isomers)	(CAS-No.) 13674-84-5 (EC-No.) 237-158-7 (REACH-no) 01-2119447716-31	5 – 15	Acute Tox. 4 (Oral), H302

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ALKANES, C14-17, CHLORO	(CAS-No.) 85535-85-9	≤ 2.5	Lact., H362
	(EC-No.) 287-477-0		Aquatic Acute 1, H400
	(EC Index-No.) 602-095-00-X		Aquatic Chronic 1, H410

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after inhalation	 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	 Causes skin irritation. May cause an allergic skin reaction. Direct contact with the eyes is likely to be irritating. Risk of serious damage to eyes.

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	: Dry powder. Foam. Water spray.	
5.2. Special hazards arising from the subst	tance or mixture	
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Extremely flammable aerosol. Pressurised container: May burst if heated. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions	 This product is not to be used under conditions of poor ventilation. Keep container tightly closed and away from heat, sparks and flame. Do not enter fire area without proper protective equipment, including respiratory protection. Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed 	
Protection during firefighting	containers. : Do not enter fire area without proper protective equipment, including respiratory protection.	

SECTION 6: Accidental release measur	res
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid contact with skin, eyes and clothing. Do not breathe vapours. Do not breathe dust. Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. For emergency responders	
Protective equipment	: Wear recommended personal protective equipment.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	tainment and cleaning up
Methods for cleaning up	: Mechanically recover the product. This material and its container must be disposed of in a safe way, and as per local legislation.
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. For further information refer to section 8: "Exposure controls/personal protection".

7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Do not pierce or burn, even after use. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Use only outdoors or in a well-ventilated area. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and wher leaving work.
Hygiene measures	 Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, inclu	iding any incompatibilities
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool. Protect from sunlight. Keep container tightly closed. Store in a well-ventilated place.
Incompatible materials	: Sources of ignition.
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Keep only in original container.
Packaging materials	 Keep only in the original container in a cool,well-ventilated place away from combustible materials.

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
AlphaChem Boardfix FR		
Ireland - Occupational Exposure Limits		
OEL (8 hours ref) (mg/m³)	0.02 mg/m³ Isocyanate SEN	
OEL (8 hours ref) (ppm)	1000 ppm Dimethyl Ether	
OEL (15 min ref) (mg/m3)	0.07 mg/m³ Isocyanate SEN	
Regulatory reference	HSA 2007 Code of Practice for S,H and W at Work (Chemical Agents) Regs 2001	
United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m³)	0.02 mg/m³ Isocyanates	
WEL TWA (ppm)	400 ppm Dimethyl Ether	
WEL STEL (mg/m³)	0.07 mg/m³ Isocyanates	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

AlphaChem Boardfix FR		
WEL STEL (ppm)	500 ppm Dimethyl Ether	
United Kingdom - Biological limit values		
Regulatory reference	EH40/2005 Workplace Exposure Limits	

4,4 Diphenylmethanediisocyanate (9016-87-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Dimethyl Ether
WEL TWA (mg/m³)	766 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m³)	958 mg/m³
WEL STEL (ppm)	500 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:	
Protective gloves	
Eye protection:	
Wear closed safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	 Liquid Liquid under pressure. light pink. characteristic. No data available
•	
Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C	 No data available No data available Extremely flammable aerosol. No data available No data available
Relative density Density	: No data available : 21 – 25 kg/m³

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Solubility Partition coefficient n-octanol/water (Log Pow) Partition coefficient n-octanol/water (Log Kow) Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	 No data available 0.1 Dimethyl Ether < 4 Dimethyl Ether No data available No data available Pressurised container: May burst if heated. No data available No data available No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Contains gas under pressure; may explode if heated. Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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 toxicological effects	i de la constante de la constan
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.

AlphaChem Boardfix FR	
LD50 oral rat	> 4000 mg/kg Chloroparaffins
LD50 dermal rabbit	> 13500 mg/kg Chloroparaffins
LC50 inhalation rat (mg/l)	309 mg/l/4h Dimthyl Ether
LC50 inhalation rat (ppm)	164000 ppm/4h Dimethyl Ether
LC50 inhalation rat (Vapours - mg/l/4h)	> 48.17 mg/l/4h Chloroparaffins
ATE CLP (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reproductive toxicity :	May cause harm to breast-fed children.
STOT-single exposure :	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified
AlphaChem Boardfix FR	
Vaporizer	Aerosol

SECTION 12: Ecological information

12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

AlphaChem Boardfix FR	
LC50 fish 1	> 4100 mg/l Poecilia reticula fresh water, Dimethyl Ether
LC50 fish 2	> 5000 mg/l Alburnus alburnus, chloroparaffins, static system
EC50 Daphnia 1	> 4400 mg/l Dimethyl Ether
EC50 Daphnia 2	0.006 mg/l Chloroparaffins
EC50 72h algae (1)	> 3.2 mg/l Chloroparaffin, Pseudokirschnierella subcapitata
EC50 96h algae (1)	154.9 mg/l Dimethyl Ether, Ecosar

12.2. Persistence and degradability

4,4 Diphenylmethanediisocyanate (9016-87-9)	
Persistence and degradability	Not established.

ALKANES, C14-17, CHLORO (85535-85-9)	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
AlphaChem Boardfix FR	
BCF fish 1	6660 Chloroparaffins, Oncorhynus mykiss
Partition coefficient n-octanol/water (Log Pow)	0.1 Dimethyl Ether
Partition coefficient n-octanol/water (Log Kow)	< 4 Dimethyl Ether
4,4 Diphenylmethanediisocyanate (9016-87-	3)
Bioaccumulative potential	Not established.

ALKANES, C14-17, CHLORO (85535-85-9)	
Bioaccumulative potential	Not established.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil	
AlphaChem Boardfix FR	
Partition coefficient n-octanol/water (Log Koc)	5 Chloroparaffins
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste) Ecology - waste materials	Disposal must be done according to official regulations.Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	1		1	
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
I4.2. UN proper shippin	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Fransport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1 ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group	· · · · · ·			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information	on available			
4.6. Special precaution	e for usor			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

according to Regulation (EC) No. 1907/2006 (REACH) with	its amendment Regulation (EU) 2015/830
Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Special provisions for carriage - Packages (ADR) Special provisions for carriage - Loading, unloading and handling (ADR) Special provisions for carriage - Operation (ADR) Tunnel restriction code (ADR)	
Transport by sea	
Special provisions (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) Segregation (IMDG)	: 63, 190, 277, 327, 344, 381, 959 : P207, LP200 : PP87, L2 : F-D : S-U : None : SW1, SW22 : SG69
Air transport	
PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	 E0 Y203 30kgG 203 75kg 203 150kg A145, A167, A802 10L 5F 190, 327, 344, 625 1 L E0 PP, EX, A VE01, VE04 1
Rail transport	. 1
Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Special packing provisions (RID) Mixed packing provisions (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Special provisions for carriage – Loading, unloading and handling (RID) Colis express (express parcels) (RID)	 5F 190, 327, 344, 625 1L E0 P207, LP200 PP87, RR6, L2 MP9 2 W14 CW9, CW12 CE2
Hazard identification number (RID)	: CE2 : 23
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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H222	Extremely flammable aerosol.	
H229	Pressurised container: May burst if heated.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H362	May cause harm to breast-fed children.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH204	Contains isocyanates. May produce an allergic reaction.	

SDS EU (REACH Annex II)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.