

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: **fischer PU 2/402 fast bonding foam B2, fischer PU 2/403 fixing foam B2**

Revision Date: 09.10.2014

Version: 4.0/en



Replaces version from: 18.01.2013

Print date: 09.10.2014

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

1.1 Product identifier

Commercial Product Name **fischer PU 2/402 fast bonding foam B2, fischer PU 2/403 fixing foam B2**

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

Relevant identified uses Installation of door and window frames, and of foamed polystyrene elements, shower basins and bathtubs, filling of cavities without the need of air moisture, construction of apparatus and containers, and model construction, hand crafting

1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
D-72178 Waldachtal
Telephone: +49(0)7443 12-0
FAX: +49(0)7443 12-4222
Email: info-sdb@fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd, Hithercroft Road, Wallingford, Oxfordshire, OX10 9AT, Tel. 01491 827 920, Fax 01491 827 950

1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 Flam. Aerosol 1; H222 Acute Tox. 4; 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

*Classification according to Directive 67/548/EEC / 1999/45/EEC F+; R12 Carc.Cat.3; R40 R42/43 Xn; R20/22-48/20 Xi; R36/37/38

2.2 Label elements

*Hazard pictogram



GHS02



GHS07



GHS08

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Signal word	Danger
Hazardous component(s) to be indicated on label	4, 4'-methylenediphenyl diisocyanate, isomers and homologues
*H-statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. 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 . H373: May cause damage to organs through prolonged or repeated exposure .
*P-statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122oF. P501: Dispose of contents/container to special waste treatment
*Further information	EUH204: Contains isocyanates. May produce an allergic reaction.
2.3 Other hazards	
*Health hazard	None known.
*Particular information pertaining specific risk for human / environment	Buildup of explosive mixtures possible without sufficient ventilation.
*Indication of danger	None known.
*Hazard precautions	None known.

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

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
4,4'-methylenediphenyl diisocyanate, isomers and homologues	CAS No.: 9016-87-9 REACH No.: 01-2119457024-46	Carc.Cat.3; R40 R42/43 Xn; R20-48/20 Xi; R36/37/38 Resp. Sens. 1; H334 Carc. 2; H351 STOT RE 2; H373 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335	25.0 - 50.0 %
tris(2-chloro-1-methylethyl) phosphate	CAS No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01-2119486772-26, 01-2119447716-31	Xn; R22 Acute Tox. 4; H302	10.0 - 25.0 %
isobutane	CAS No.: 75-28-5 EC-No.: 200-857-2 Index-No.: 601-004-00-0	F+; R12 Flam. Gas 1; H220 Press. Gas; H280	2.5 - 10.0 %
dimethyl ether	CAS No.: 115-10-6 EC-No.: 204-065-8 Index-No.: 603-019-00-8 REACH No.: 01-2119472128-37, 01-2119519269-33	F+; R12 Flam. Gas 1; H220 Press. Gas; H280	2.5 - 10.0 %
ethanediol, ethylene glycol	CAS No.: 107-21-1 EC-No.: 203-473-3 Index-No.: 603-027-00-1 REACH No.: 01-2119456816-28, 02-2119752517-33	Xn; R22 Acute Tox. 4; H302 STOT RE 2; H373	2.5 - 10.0 %
propane	CAS No.: 74-98-6 EC-No.: 200-827-9 Index-No.: 601-003-00-5	F+; R12 Flam. Gas 1; H220 Press. Gas; H280	< 2.5 %
2,2-dimethylpropan-1-ol, tribromo derivative	CAS No.: 36483-57-5 EC-No.: 253-057-0	Xi; R36 Eye Irrit. 2; H319	< 2.5 %

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	If symptoms persist, call a physician. Take off all contaminated clothing immediately. Remove/Take off immediately all contaminated clothing.
If inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious place in recovery position and seek medical advice.
In case of skin contact	Use mechanical handling equipment. IF ON SKIN: Gently wash with plenty of soap and water.
In case of eye contact	Use mechanical handling equipment. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	If swallowed, seek medical advice immediately and show this container or label.

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Clean mouth with water and drink afterwards plenty of water. Drink 1 or 2 glasses of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No data available

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention No data available

Special medical treatment No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂)
Dry powder
Foam
Water spray jet

Extinguishing media which must not be used for safety reasons High volume water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Container may rupture on heating.
Heating or fire can release toxic gas.
May form explosive mixtures in air.

5.3 Advice for firefighters

Special protective equipment for firefighting In the event of fire, wear self-contained breathing apparatus.
In the event of fire and/or explosion do not breathe fumes.

Additional information on firefighting Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Keep containers and surroundings cool with water spray. Container may rupture on heating.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.
Keep away from sources of ignition – No smoking.
Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Environmental precautions The product should not be allowed to enter drains, water courses or the soil.

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Prevent spreading over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Allow to solidify, use mechanical handling equipment.
Ensure adequate ventilation.
Do not flush with water.

6.4 Reference to other sections

Reference to other sections See chapter 8/13

6.5 Additional information

Other information Treat recovered material as described in the section "Disposal considerations".
Dispose of in accordance with local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Handle and open container with care.
Provide sufficient air exchange and/or exhaust in work rooms.
Vapours are heavier than air and may spread along floors.
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Advice on protection against fire and explosion Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any other incandescent material.
Keep away from sources of ignition – No smoking.
In use, may form flammable/explosive vapour-air mixture.
Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements Keep containers tightly closed in a cool, well-ventilated place.
Container may rupture on heating.
Store in accordance with local regulations.

German storage class LGK 2B (TRGS 510)

7.3 Specific end use(s)

Specific use(s) installation foam. Further information: see technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

dimethyl ether

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Source
400	766	500	958	19

Source: 19 - EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Issuing date	Source
1 920	1 000	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU

ethanediol, ethylene glycol

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
	10			particulate; Can be absorbed through the skin.	19
20	52	40	104	vapour; Can be absorbed through the skin.	19

Source: 19 - EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Note	Issuing date	Source
52	20	104	40	Skin	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

professional users(long contact):Wear protective gloves.

Suitable material:

butyl-rubber, Chloroprene, Nitrile rubber

Unsuitable material:

PVC disposable gloves

Material thickness:

>= 0,5 mm

Break through time:

>120 min

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Remarks:	Replace when worn.
Reference substance:	Request information on glove permeation properties from the glove supplier.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). private users (short contact):
Suitable material:	attached disposable gloves
Remarks:	Use gloves once only.
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Note:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Do not breathe vapors, mist or gas. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.
Information on environmental protection regulations	No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Aerosol
Odour	characteristic
Odour threshold	not determined
pH	not determined not applicable
Melting point [°C] / Freezing point [°C]	not determined
Boiling point [°C]	not applicable (aerosol)
*Flash point [°C]	< 100
Reference substance:	Aerosol
Evaporation rate [kg/(s*m ²)]	No data available

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Flammability (solid, gas)	Not applicable.
*Explosion limits [Vol-%]	
Lower limit:	1,7
Upper limit:	53,0
Risk of explosion.	In use, may form flammable/explosive vapour-air mixture.
Vapour pressure [kPa]	5 – 6 bar
Temperature:	20 °C
*Density [g/cm ³]	1,03
Temperature:	20 °C
Relative density	not determined
Water solubility [g/l]	immiscible
Solubility [g/l]	No data available
Partition coefficient n-octanol / water (log P O/W)	not determined
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	not determined
Oxidising properties	No data available

9.2 Other information

Relative vapour density (air=1) not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid Container may rupture on heating.
No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid No dangerous reaction known under conditions of normal use.

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10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

4,4'-methylenediphenyl diisocyanate, isomers and homologues

Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 5000	LD50	rat	OECD 423	100

Source: 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rabbit	100

Source: 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Source
1,5	LC50	4 h	100

Source: 100 - Firmendaten

Irritant effect on the respiratory tract: Irritant

dimethyl ether

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species	Source
308	LC50	4 h	rat	100

Source: 100 - Firmendaten

ethanediol, ethylene glycol

Oral toxicity [mg/kg]	Source
Harmful if swallowed.	100

Source: 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 3500	LD50	rabbit	100

Source: 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species	Note	Source
> 2,5	LC50	6 h	rat	(as aerosol)	100

Source: 100 - Firmendaten

Carcinogenic effects: keine carcinogenic effects

Mutagenicity: Not applicable.

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Reproduction toxicity Not applicable.

Caustic effect No data available

Specific target organ toxicity (repeated exposure) [mg/kg]	Route of exposure	Organs affected	Specific effects	Source
	Ingestion	Niere	Causes damage to organs through prolonged or repeated exposure.	2
	Skin contact	Niere	Causes damage to organs through prolonged or repeated exposure.	2

Source: 2 – SimChem

Irritant effect on skin Irritating to skin and mucous membranes

Irritant effect on eyes Irritating to eyes.

Sensitization May cause sensitization by inhalation and skin contact.

11.2 Additional information

Other information (chapter 11.) The product itself has not been tested.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

4,4'-methylenediphenyl diisocyanate, isomers and homologues

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Duration of dosage	Source
> 100	LC50	Brachydanio rerio (zebra fish)	OECD Test Guideline 203	96 h	100

Source: 100 – Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
> 1000	EC50	Daphnia magna (Water flea)	24 h	OECD Test Guideline 202	100

Source: 100 – Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
> 1640	ErC50:	Scenedesmus subspicatus	72 h	100

Source: 100 – Firmendaten

NOEC (daphnia) [mg/l]	Duration of dosage	Test species	Measuring method	Source
> 10	21 d	Daphnia magna (Big water flea).	OECD 202	100

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Source: 100 – Firmendaten

dimethyl ether

Toxicity to fish [mg/l]	Test criterion	Duration of dosage	Source
> 1000	LC50	96 h	100

Source: 100 – Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 4400	LC50	Daphnia magna (Water flea)	48 h	100

Source: 100 – Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
154,917	EC50	Scenedesmus quadricauda (Green algae)	96 h	100

Source: 100 – Firmendaten

ethanediol, ethylene glycol

Toxicity to fish [mg/l]	Test criterion	Test species	Duration of dosage	Source
72860	LC50	Pimephales promelas (Pimephales promelas (fathead minnow))	96 h	100

Source: 100 – Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 100	EC50	Daphnia magna (Water flea)	48 h	100

Source: 100 – Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
> 6500	EC50	Selenastrum capricornutum	96 h	100

Source: 100 – Firmendaten

NOEC (fish) [mg/l]	Test criterion	Duration of dosage	Test species	Source
15380	NOEC	7 d	Pimephales promelas (fathead minnow)	100

Source: 100 – Firmendaten

NOEC (daphnia) [mg/l]	Duration of dosage	Test criterion	Source
8590	7 d	NOEC	100

Source: 100 – Firmendaten

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12.2 Persistence and degradability

Elimination and distribution mechanisms No information available.

Elimination in purification plant No data available

Biodegradability No data available

12.3 Bioaccumulative potential

Bioaccumulation no data available

Bioconcentration factor (BCF) No data available

12.4 Mobility in soil

Distribution in the environment No data available

Mobility

Mobility: No data available

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Further information on ecology The product itself has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

The product should not be allowed to enter drains, water courses or the soil.

Empty remaining contents.

Waste Code 080501 – waste isocyanates
160504 – gases in pressure containers (including halons) containing dangerous substances
cured material: 200000 – MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Uncleaned empty packaging Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1950	1950	1950

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.2 Description of the goods	AEROSOLS	AEROSOLS	
14.2 UN proper shipping name		AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2.1	2.1
Remarks	inflammable	(maximum 1 L) flammable	
Labels	2.1 	2.1 	2.1 
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
14.5 Environmental hazards		0: Non-marine pollutant	
EmS		F-D;S-U	
Stowage category		A	

14.6 Special precautions for user

Precautions not required under normal use

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code not applicable

SECTION 15: Regulatory information

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

Additional regulations Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Water hazard class (self-classification) 1

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant R-phrases R12: Extremely flammable.
R20: Harmful by inhalation.
R20/22: Harmful by inhalation and if swallowed.

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Relevant H-phrases

R22: Harmful if swallowed.
R36: Irritating to eyes.
R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and skin contact.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

H220: Extremely flammable gas.
H222: Extremely flammable aerosol.
H280: Contains gas under pressure; may explode 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 .
H373: May cause damage to organs through prolonged or repeated exposure .
EUH204: Contains isocyanates. May produce an allergic reaction.

Wording of the hazard classes

Flam. Aerosol: Flammable aerosol
Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Eye Irrit.: Serious eye irritation
Resp. Sens.: Respiratory sensitization
Skin Sens.: Skin sensitization
Carc.: Carcinogenicity
STOT SE: Specific target organ toxicity – single exposure
STOT RE: Specific target organ toxicity – repeated exposure
Flam. Gas: Flammable gas
Press. Gas: Gases under pressure

Modifications since last version Modifications of the previous version are denoted with an asterisk ().

*Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification	Evaluation
Flam. Aerosol 1; H222	Calculated
Acute Tox. 4; H332	Calculated
Skin Irrit. 2; H315	Calculated
Eye Irrit. 2; H319	Calculated
Resp. Sens. 1; H334	Calculated
Skin Sens. 1; H317	Calculated
Carc. 2; H351	Calculated
STOT SE 3; H335	Calculated
STOT RE 2; H373	Calculated

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This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.