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MSDS Ref:

Publication date
07/2016Revision date
07/2016**1. PRODUCT NAME:****TRITON TWS-POLY S – COMP A****2. HAZARD IDENTIFICATION****2.1 CLASSIFICATION OF THE MIXTURE**

In accordance with Regulation (EU) No. 1272/2008

Acute Tox. 4:	Harmful if swallowed
Aquatic Chronic 2:	Toxic to aquatic life with long lasting effects
Eye Dam. 1:	Causes serious eye damage
Skin Corr. 1B:	Causes severe skin burns and eye damage
STOT RE 2:	May cause damage to organs through prolonged or repeated exposure

2.2 LABEL ELEMENTS

Labelling in accordance with Regulation (EU) No 1272/2008

Pictograms

Signal Word

Danger

H statements

H302

H314

H373

H411

Harmful if swallowed

Causes severe skin burns and eye damage

May cause damage to organs through prolonged or repeated exposure

Toxic to aquatic life with long lasting effects

P statements

P260

P270

P273

P280

P310

P314

P305+P351+P338

Do not breathe dust/fume/gas/mist/vapours/spray

Do not eat, drink or smoke when using this product.

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

Immediately call a POISON CENTRE/Doctor/...

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains:

diethylmethylbenzenediamine (Mixture of isomers)

Polyoxypropylenediamine

2.3 OTHER HAZARDS

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

2. COMPOSITION**3.1 SUBSTANCES:**

Not applicable.

3.2 MIXTURES

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:



Identifiers	Name	Concentrate	(*) Classification – Regulation (EC) No 1272 / 2008	
			Classification	Specific concentration limit
CAS No: 9046-10-0	Polyoxypropylenediamine	25 – 100%	Acute Tox. 4, H302 – Aquatic Chronic 3, H412 – Skin Corr, 1B, H314	-
Index No: 612-130-00-0 CAS No: 68479-98-1 EC No: 270-877-4 Registration No: 01-2119486805-25-XXXX	Diethylmethylbenzenediamine (Mixture of isomers)	10 – 25%	Acute Tox. 4 *, H312 – Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 – Aquatic Chronic 1, H410 – Eye Irrit. 2, H319 – STOT RE 2 *, H373 **	-

(*) The complete text of the R & H phrases is given in section 16 of this Safety Data Sheet.

*, ** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

4. FIRST AID

4.1 DESCRIPTION OF FIRST AID MEASURES:

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

INHALATION:

If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

EYE CONTACT:

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

SKIN CONTACT:

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

INGESTION:

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

5. FIRE-FIGHTING MEASURES

This product does not present any particular risk in case of fire.

The product is NOT classified as flammable; in case of fire the following measures should be taken:

5.1 EXTINGUISHING MEDIA:

Recommended extinguishing methods: Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Special Risks: Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 ADVICE TO FIREFIGHTERS:

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers or waterways.

FIRE PROTECTION EQUIPMENT:

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, protective goggles or facemasks and gloves.



6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: For exposure control and individual protection measures, see section 8.
- 6.2 ENVIRONMENTAL PRECAUTIONS: Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters and the ground.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pore the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.
- 6.4 REFERENCE TO OTHER SECTIONS: For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

7. HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING: For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and place vertically to prevent spills. Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III)::

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS – Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 SPECIFIC END USE(S)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS






The product does NOT contain substances with Profession Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Diethylmethylbenzenediamine (Mixture of isomers) N.CAS: 68479-98-1 N.CE: 270-877-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	0,13 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 EXPOSURE CONTROLS

Measures of a technical nature: Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100%	
Uses:	Coating	
Breathing Protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations: Filter Type needed	<p>Filter mask for protection against gases and particles. <CE> marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight. EN 136, EN 140, EN 405 Should not be stored in places exposed to high temperatures and damp environments before used. Special attention should be paid to the stated of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.</p> <p>A2</p>	
Hand protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations: Material:	<p>Non-disposable protective gloves against chemicals. <CE> marking, category III. Check the list of chemicals for which the glove has been tested. EN 374-1, EN 374-2, EN374-3, EN 420 A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the gloves material. They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength. PVC (polyvinyl chloride) Breakthrough time > 480(min). Material thickness – 0.35mm</p>	
Eye protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	<p>Protective goggles with built-in frame. <CE> marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour. EN 165, EN 166, EN 167, EN 168 Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping, etc.</p>	
Skin protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	<p>Chemical protective clothing <CE> marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material. EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5 In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer. The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.</p>	
Footwear:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	<p>Anti-static safety footwear against chemicals <CE> marking, category III. Check the list of chemicals against which the footwear is resistant. EN ISO 13287, EN 13832-1, EN 13832-2, EN ISO 20344, EN ISO 20345 For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed. The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.</p>	

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid with characteristic odour
Colour:	Colorless to light yellow
Odour:	Amine
Odour threshold:	N.A./N.A.
pH:	10,5
Melting Point:	Not determined °C
Boiling Point:	507 °C
Flash Point:	185 °C
Evaporation rate:	Not determined
Inflammability (solid, gas):	Non Flammable
Lower Explosive Limit:	Not determined
Upper Explosive Limit:	N.A./N.A.

N.A./N.A. = Not available / Not Available due to the nature of the product.

Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	1 g/cm ³
Solubility:	Partially soluble in cold water and organic solvents
Liposolubility:	Not determined
Hydrosolubility:	Partially in cold water and organic solvents
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	N.A./N.A.
Decomposition temperature:	N.A./N.A.
Viscosity:	600
Explosive properties:	Not determined
Oxidising properties:	Not determined



9.2 OTHER INFORMATION

Volatile organic compound (VOC)

Product Subcategory:

Two-pack reactive performance coatings for specific end use such as floors, solvent-borne

Phase I* (from 01/01/2007)

550 g/l

Phase II* (from 01/01/2010)

500 g/l

(*) g/l ready to use

VOC content (p/p

0,72%

VOC content

7,12 g/l

Pour Point:

Not determined

Blink

Not determined

10. STABILITY/REACTIVITY

10.1 REACTIVITY:

The product does not present hazards by their reactivity

10.2 CHEMICAL STABILITY:

Unstable in contact with:

- Acids

10.3 POSSIBILITY OF HAZARDOUS REACTIONS.

Neutralisation can occur on contact with acids

10.4 CONDITIONS TO AVOID:

Avoid contact with acids

10.5 INCOMPATIBLE MATERIALS:

Avoid the following materials:

- Acids

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS.

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

a) Acute toxicity;
Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):
Mixtures:

ATE (Dermal) = 5946 mg/kg

ATE (Oral) = 515 mg/kg

b) Skin corrosion / irritation;
Product classified:

Skin corrosive, Category 1B: Causes severe skin burns and eye damage.

c) Serious eye damage / irritation
Product classified:

Serious eye damage, Category 1: Causes serious eye damage

d) Respiratory or skin sensitisation:

Not conclusive data for classification.

e) Germ cell mutagenicity;

Not conclusive data for classification

f) Carcinogenicity;

Not conclusive data for classification

g) Reproductive toxicity;

Not conclusive data for classification.

h) STOS-single exposure:

Specific target organ toxicity following a single exposure, Category 3:

i) STOT-repeated exposure;
Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) Aspiration hazard;

Not conclusive data for classification.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY	No information is available regarding the ecotoxicity of the substances present.
12.2 PERSISTENCE AND DEGRADABILITY	No information is available about persistence and degradability of the product.
12.3 BIOACCUMULATIVE POTENTIAL	No information is available regarding the bioaccumulation of the substances present.
12.4 MOBILITY IN SOIL	No information is available about the mobility in soil. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.
12.5 RESULTS OF PBT AND vPvb ASSESSMENT	No information is available about the results of PBT and vPvB assessment of the product.
12.6 OTHER ADVERSE EFFECTS	No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS	Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.
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14. TRANSPORT INFORMATION

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID
Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG
Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA
Transport by plane: ICAO/IATA
Transport document: Airway bill

14.1 UN NUMBER	UN No: UN2735
14.2 UN PROPER SHIPPING NAME	Description: UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYOXYPROPYLENEDIAMINE), 8, PG III, (E)
14.3 TRANSPORT HAZARD CLASS(ES)	Class(es): 8
14.4 PACKING GROUP	Packing group: III
14.5 ENVIRONMENTAL HAZARDS	Marine pollutant: Yes



Dangerous for the environment

14.6 SPECIAL PRECAUTIONS FOR USER	Labels: 8
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Hazard number: 80
ADR LQ: 5 L

Provisions concerning carriage in bulk ADR: Not authorised carriage in bulk in accordance with ADR.
Transport by ship, FEm – Emergency sheets (F – Fire, S – Spills): F-A,S-B

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE.	This product is not transported in bulk.
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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE MIXTURE

The product is not affected by the Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See Annex I of the Directive 96/82/EC of 9 December 1996 on the control of major –accident hazards involving dangerous substances. The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and / or technical data sheet for further information.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 CHEMICAL SAFETY ASSESSMENT

There has been no evaluation a chemical safety assessment of the product.

16. OTHER INFORMATION

COMPLETE TEXT OF THE H PHRASES THAT APPEAR IN SECTION 3:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs though 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.

CLASSIFICATION CODES:

Acute Tox. 4 [Dermal]:	Acute toxicity (Dermal), Category 4
Acute Tox. 4 [Oral]:	Acute toxicity (Oral), Category 4
Aquatic Acute 1:	Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1:	Chronic effect to the aquatic environment, Category 1
Aquatic Chronic 2:	Chronic effect to the aquatic environment, Category 2
Aquatic Chronic 3:	Chronic effect to the aquatic environment, Category 3
Eye Dam. 1:	Serious eye damage, Category 1
Eye Irrit. 2:	Eye Irritation, Category 2
Skin Corr. 1B:	Skin Corrosive, Category 1B
STOT RE 2:	Specific target organ toxicity following a repeated exposure, Category 2

It is advisable to carry our basic training with regard to health and safety at work in order to handle this product correctly.

LABELLING IN ACCORDANCE WITH DIRECTIVE 1999/45/EC:

SYMBOLS:



Corrosive



Dangerous for the Environment

R Phrases

R22	Harmful if swallowed
R34	Causes burns
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases

S23	Do not breathe gas/fumes/vapour/spray
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28	After contact with skin, was immediately with plenty of water
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S57	Use appropriate container to avoid environmental contamination
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.



Contains: diethylmethylbenzenediamine (Mixture of isomers)
Polyoxypropylenediamine

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN: European Committee for Standardization
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated
PPE: Personal protection equipment
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830

Regulation (EC) No1907/2006

Regulation (EU) No 1272/2008

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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MSDS Ref:

Publication date
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07/2016**1. PRODUCT NAME:****TRITON TWS-POLY S – COMP B****2. HAZARD IDENTIFICATION****2.1 CLASSIFICATION OF THE MIXTURE**

In accordance with Regulation (EU) No. 1272/2008

Acute Tox. 4:	Harmful if inhaled
Eye Irrit. 2:	Causes serious eye infection.
Resp. Sens 1:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Irrit. 1:	Causes skin irritation
Skin Sens. 1:	May cause an allergic skin reaction.
STOT SE 3:	May cause respiratory irritation
STOT SE 3:	May cause drowsiness or dizziness

2.2 LABEL ELEMENTS

Labelling in accordance with Regulation (EU) No 1272/2008



HARMFUL

HEALTH
HAZARD

Signal Word

Danger

H statements

H315

Causes skin

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

H336

May cause drowsiness or dizziness

P statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray

P280

Wear protective gloves/protective clothing/eye protection/face protection

P284

[In case of inadequate ventilation] wear respiratory protection

P314

Get medical advice/attention if you feel unwell

P501

Dispose of contents/container to....

P302+P352

IF ON SKIN: Wash with plenty of water/....

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing

EUH Statements:

EUH204

Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

Contains:

Aromatic polyurethane polymer

4,4' diphenylmethane diisocyanate, oligomers

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenylisocyanate

2.3 OTHER HAZARDS

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

2. COMPOSITION

3.1 SUBSTANCES:

Not applicable.

3.2 MIXTURES

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:



Identifiers	Name	Concentrate	(*) Classification – Regulation (EC) No 1272 / 2008	
			Classification	Specific concentration limit
CAS No: 96328-90-4 EC No: 692-819-0	Aromatic Polyurethane polymer	1 – 75%	Resp. Sens. 1, H334 – Skin Sens. 1, H317	-
CAS No: 25686-28-6 EC No.: 500-040-3 Registration No: 01-2119457013-49	4,4' diphenylmethane diisocyanate, oligomers	29 – 50%	Acute Tox. 4, H332 – Carc.2, H351 – Eye Irrit 2, H319 – Resp. Sens. 1, H334 – Skin Irrit. 2, H315 – Skin Sens. 1, H317 – Skin Sens. 1B, H317 – STOT RE 2, H373 – STOT SE 3, H335/H336	-
Index No: 607-194-607-1 CAS No: 108-32-7 EC No: 203-572-1 Registration No: 01-2119537232-48 XXXX	Propylene carbonate	1 – 10%	Eye Irrit. 2, H319	-
Registration No: 01-2119457015-45	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl) phenylisocyanate	1 – 10%	Carc. 2, H351 – Eye Irrit. 2, H319 – Resp. Sens. 1, H334- Skin Irrit. 2, H315 – Skin Sens. 1, H317 – STOT RE 2, H373 – STOT SE, H335	-

(*) The complete text of the R & H phrases is given in section 16 of this Safety Data Sheet,.

4. FIRST AID

4.1 DESCRIPTION OF FIRST AID MEASURES:

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to person who are unconscious.

INHALATION:

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

EYE CONTACT:

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

SKIN CONTACT:

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

INGESTION:

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

5. FIRE-FIGHTING MEASURES

This product does not present any particular risk in case of fire.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 EXTINGUISHING MEDIA:

Recommended extinguishing methods: Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish. (Cont'd



5. FIRE-FIGHTING MEASUREScont'd)

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Special Risks: Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 ADVICE TO FIREFIGHTERS: Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers or waterways.

FIRE PROTECTION EQUIPMENT: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, protective goggles or facemasks and gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: For exposure control and individual protection measures, see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS: Prevent the contamination of drains, surface or subterranean waters and the ground.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pore the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 REFERENCE TO OTHER SECTIONS: For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating and drinking must be prohibited.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and place vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 SPECIFIC END USE(S)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

The product does NOT contain substances with Profession Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:






Name	DNEL/DMEL	Type	Value
Propylene carbonate N. CAS: 108-32-7 N. CE: 203-572-1	DNEL (Workers)	Inhalation, Long-term, Local effects	20 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	176 (mg/m ³ l)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 EXPOSURE CONTROLS

Measures of a technical nature: Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100%	
Uses:	Coating	
Breathing Protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Filter mask for protection against gases and particles. <CE> marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight. EN 136, EN 140, EN 405 Should not be stored in places exposed to high temperatures and damp environments before used. Special attention should be paid to the stated of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.	
Hand protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations: Material:	Protective gloves against chemicals. <CE> marking, category III. EN 374-1, EN 374-2, EN374-3, EN 420 Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives. Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands. PVC (polyvinyl chloride) Breakthrough time > 480min. Material thickness – 0.35mm	
Eye protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Protective goggles with built-in frame. <CE> marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour. EN 165, EN 166, EN 167, EN 168 Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping, etc.	
Skin protection:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Anti-static protective clothing <CE> marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements. EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5 In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer. The protective clothing should offer a level of comfort in line with the level of protection provided in terms of hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	
Footwear:		
PPE: Characteristics: CEN Standards: Maintenance: Observations:	Anti-static safety footwear. <CE> marking, category II. EN ISO 13287, EN ISO 20344, EN ISO 20346 The footwear should be checked regularly. The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.	

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid with characteristic odour and colour
Colour:	yellowish
Odour:	weak
Odour threshold:	N.A./N.A.
pH:	n.a.
Melting Point:	Not determined °C
Boiling Point:	400 °C
Flash Point:	1600 °C
Evaporation rate:	Not determined
Inflammability (solid, gas):	Non Flammable
Lower Explosive Limit:	Not determined
Upper Explosive Limit:	N.A./N.A.

Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	1,12 g/cm ³
Solubility:	Soluble in Organic solvents
Liposolubility:	Soluble
Hydrosolubility:	Not soluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	N.A./N.A.
Decomposition temperature:	N.A./N.A.
Viscosity:	1000-5000 mPa.s at 20°C
Explosive properties:	Not determined
Oxidising properties:	Not determined

N.A./N.A. = Not available / Not Available due to the nature of the product.



9.2 OTHER INFORMATION

Volatile organic compound (VOC)

Product Subcategory:	Two-pack reactive performance coatings for specific end use such as floors, solvent-borne
Phase I* (from 01/01/2007)	550 g/l
Phase II* (from 01/01/2010)	500 g/l
(*) g/l ready to use	
VOC content (p/p	0%
VOC content	0 g/l
Pour Point:	Not determined
Blink	Not determined
Kinematic viscosity	Not determined

10. STABILITY/REACTIVITY

10.1 REACTIVITY:	The product does not present hazards by their reactivity
10.2 CHEMICAL STABILITY:	Stable under the recommended handling and storage conditions (see section 7)
10.3 POSSIBILITY OF HAZARDOUS REACTIONS.	The product does not present possibility of hazardous reactions.
10.4 CONDITIONS TO AVOID:	Avoid any improper handling.
10.5 INCOMPATIBLE MATERIALS:	Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	No decomposition if used for the intended uses.

11. TOXICOLOGICAL INFORMATION

IRRITANT PREPARATION The inhalation of spray mist or suspended particles can irritate the respiratory tract. It can be also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS. There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Exposure to concentrations of solvent fumes above the work exposure limit can have negative effects (for example, irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver, and central nervous system). Among the symptoms are headaches, vertigo, fatigue, muscular weakness, drowsiness, and in extreme cases, unconsciousness.

Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and / or acute awareness of the respiratory system, leading to an asthmatic condition, a wheezing and chest pressure. Therefore, sensitized individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.

- a) Acute toxicity;
Product classified: Acute toxicity (Inhalation), Category 4: Harmful if inhaled

Acute Toxicity Estimate (ATE):
Mixtures: ATE (Inhalation) = 13149 mg/l/4 h (Gases)
- b) Skin corrosion / irritation;
Product classified: Skin irritant, Category 2: Causes skin irritation.
- c) Serious eye damage / irritation
Product classified: Eye irritation, Category 2: Causes serious eye irritation
- d) Respiratory or skin sensitisation;
Product classified: Respiratory sensitiser, Category 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitiser, Category 1: May cause an allergic skin reaction.
- e) Germ cell mutagenicity; Not conclusive data for classification
- f) Carcinogenicity;
Product Classified: Carcinogen, Category 2: Suspected of causing cancer.



(continued

11. TOXICOLOGICAL INFORMATION cont'd)

- g) Reproductive toxicity; Not conclusive data for classification.
- h) STOS-single exposure;
Product classified: Specific target organ toxicity following a single exposure, Category 3:
- i) STOT-repeated exposure;
Product classified: Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.
- j) Aspiration hazard; Not conclusive data for classification.

12. ECOLOGICAL INFORMATION

- 12.1 TOXICITY No information is available regarding the ecotoxicity of the substances present.
- 12.2 PERSISTENCE AND DEGRADABILITY No information is available about persistence and degradability of the product.
- 12.3 BIOACCUMULATIVE POTENTIAL
Information about the bioaccumulation of the substance present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
Propylene carbonate N. CAS: 108-32-7 EC No: 203-572-1	-0,41	-	-	Very low

- 12.4 MOBILITY IN SOIL No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.
- 12.5 RESULTS OF PBT AND vPvb ASSESSMENT No information is available about the results of PBT and vPvB assessment of the product.
- 12.6 OTHER ADVERSE EFFECTS No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

- 13.1 WASTE TREATMENT METHODS Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

14. TRANSPORT INFORMATION

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

- 14.1 UN NUMBER Transportation is not dangerous
- 14.2 UN PROPERT SHIPPING NAME Transportation is not dangerous
- 14.3 TRANSPORT HAZARD CLASS(ES) Transportation is not dangerous
- 14.5 ENVIRONMENTAL HAZARDS Transportation is not dangerous
- 14.6 SPECIAL PRECAUTIONS FOR USER Transportation is not dangerous
- 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE. Transportation is not dangerous

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE MIXTURE

The product is not affected by the Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

See Annex I of the Directive 96/82/EC of 9 December 1996 on the control of major –accident hazards involving dangerous substances.

The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and / or technical data sheet for further information.

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles.

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
20. Organostannic compounds	<ol style="list-style-type: none"> 1. Shall not be placed on the market, or used, as substances or in mixture is acting as biocide in free association paint. 2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of: <ol style="list-style-type: none"> (a) All craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes; (b) Cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; (c) Any totally or partly submerged appliance or equipment. 3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters. 4. Tri-substituted organostannic compounds: <ol style="list-style-type: none"> (a) Tri-substituted organostannic compounds such as tributyltin(TBT) compounds and triphenyltin(TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1% by weight of tin. (b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date. 5. Dibutyltin (DBT) compounds: <ol style="list-style-type: none"> (a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1% by weight of tin. (b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date. (c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public: <ul style="list-style-type: none"> - one component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds when intended for outdoor applications, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades, (d) by way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No. 1935/2004. 6. Dioctyltin (DOT) compound: <ol style="list-style-type: none"> (a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater



	<p>than the equivalent of 0,1% by weight of tin:</p> <ul style="list-style-type: none">- textile articles intended to come into contact with the skin,- gloves,- footwear or part of footwear intended to come into contact with the skin,- wall and floor coverings,- childcare articles,- female hygiene products,- nappies,- two component room temperature vulcanisation moulding kits (RTV-2 moulding kits). <p>(b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the community before that date.</p>
<p>30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows:</p> <ul style="list-style-type: none">- Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5- Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn (Table 3.2) listed in Appendix 6	<p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none">- as substances,- as constituents of other substances, or,- in mixtures, <p>For supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:</p> <ul style="list-style-type: none">- Either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 122/2008, or,- The relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008 <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none">(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;(b) cosmetic products as defined by Directive 76/768/EEC;(c) the following fuels and oil products:<ul style="list-style-type: none">- motor fuels which are covered by Directive 98/70/EC,- mineral oil products intended for use as fuel in mobile or fixed combustion plants,- fuels sold in closed systems (e.g. liquid gas bottles);(d) artists' paints covered by Directive 1999/45/EC;(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

15.2 CHEMICAL SAFETY ASSESSMENT

There has been no evaluation a chemical safety assessment of the product.

16. OTHER INFORMATION

COMPLETE TEXT OF THE H PHRASES THAT APPEAR IN SECTION 3

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
H335/H336	
H351	Suspected of causing cancer
H373	May cause damage to organs though prolonged or repeated exposure.

CLASSIFICATION CODES:

Acute Tox. 4 [Inhalation] :	Acute toxicity (Inhalation), Category 4
Carc. 2 :	Carcinogen, Category 2
Eye Irrit. 2 :	Eye Irritation, Category 2
Resp. Sens. 1 :	Respiratory sensitiser, Category 1
Skin Irrit. 2 :	Skin irritant, Category 2
Skin Sens. 1 :	Skin Sensitiser, Category 1
Skin Sens. 1B:	Skin Sensitiser, Category 1B
STOT RE 2:	Specific target organ toxicity following a repeated exposure, Category 2
STOT SE3:	Specific target organ toxicity following a single exposure, Category 3

It is advisable to carry our basic training with regard to health and safety at work in order to handle this product correctly.

LABELLING IN ACCORDANCE WITH DIRECTIVE 1999/45/EC:

SYMBOLS:



HARMFUL

R Phrases

R20

R37

R40

R36/38

R42

Harmful by inhalation

Irritating to respiratory system

Limited evidence of a carcinogenic effect

Irritating to eyes and skin

DISCLAIMER

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.