

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

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

- · 1.1 Product identifier
- · Trade name: BIS PU MAX TR CQ 340G\*12 L106
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Adhesive
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bison International

Dr.A.F.Philipsstraat 9

NL-4462 EW Goes

PO Box 160

NL-4460 AD Goes

tel. +31 88 3235700

fax. +31 88 3235800

e mail: sds@boltonadhesives.com

- · Further information obtainable from: Bison QESH
- 1.4 Emergency telephone number: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB-FN

www.bison.net 1/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 1)

#### Hazard pictograms







GHS07 GHS08 GHS09

# · Signal word Danger

### · Hazard-determining components of labelling:

Aromatic polyisocyanate based prepolymer

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

#### · Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
P260 Do not breathe vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulations.

#### Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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

· 3.2 Mixtures

· Description: Adhesive

(Contd. on page 3)

GB-EN

www.bison.net 2/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

	(Cor	ntd. of page
Dangerous components:		
CAS: 99784-49-3	Aromatic polyisocyanate based prepolymer	50-1009
	Resp. Sens. 1, H334; STOT RE 2, H373; <b>1</b> Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate  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, EUH204 Specific concentration limits:  Eye Irrit. 2; H319: C ≥ 5 %  Skin Irrit. 2; H315: C ≥ 5 %  Resp. Sens. 1; H334: C ≥ 0.1 %  STOT SE 3; H335: C ≥ 5 %	10-25%
CAS: 5873-54-1 EINECS: 227-534-9 Index number: 615-005-00-9 Reg.nr.: 01-2119480143-45	o-(p-isocyanatobenzyl)phenyl isocyanate  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, EUH204 Specific concentration limits:  Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	10-25%

<sup>•</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- · 4.1 Description of first aid measures
- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

  (Contd. on page 4)

- GB-EN

www.bison.net 3/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 3)

#### · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

### 101-68-8 4,4'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

Sen; as -NCO

(Contd. on page 5)

GB-EN

www.bison.net 4/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 4)

#### 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

### Ingredients with biological limit values:

#### 101-68-8 4,4'-methylenediphenyl diisocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

### 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not required.
- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

Recommended thickness of the material: > 0,12 mm

Nitrile rubber. NBR

### · Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

· Eye/face protection



Tightly sealed goggles

(Contd. on page 6)

- GB-EN

www.bison.net 5/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 5)

Goggles recommended during refilling Body protection: Use protective suit.

### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

Light brown
Characteristic
Not determined.

Undetermined.

· Boiling point or initial boiling point and

boiling range 208 °C

· Flammability Not applicable.

Lower and upper explosion limit

 Lower:
 0.4 Vol %

 Upper:
 0.0 Vol %

 Flash point:
 201 °C

• Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:SolubilityNot determined.Not determined.

Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.

• Vapour pressure at 20 °C: 0 hPa

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

• **9.2 Other information** All relevant physical data were determined for the

mixture. All non-determined data are not measurable or not relevant for the

characterization of the mixture.

· Appearance:

· Form: Liquid

· Important information on protection of health

and environment, and on safety.

Ignition temperature: 520 °C

• Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Solids content: 96.7 %

(Contd. on page 7)

GB-EN

www.bison.net 6/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

Ohan was the name differen		(Contd. of pa
Change in condition Evaporation rate	Not determined.	
Information with regard to physical haz	ard	
classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with alcohols.

Reacts with water.

Reacts with alkali, amines and strong acids.

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Danger of forming toxic pyrolysis products.

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.

· LD/LC50	values	relevant for	classification:
-----------	--------	--------------	-----------------

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

68479-98-1 diethylmethylbenzenediamine adduct

Oral LD50 738 mg/kg (rat)

(Contd. on page 8)

GB-FN

www.bison.net 7/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 7)

# Dermal LD50 >2000 mg/kg (rat)

- 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 applicable.

Based on available data, the classification criteria are not met.

- · Carcinogenicity Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- Sensitisation Not applicable.
- Repeated dose toxicity Not applicable.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

GB-EN

(Contd. on page 9)

www.bison.net 8/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 8)

# **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packaging:
- Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14.1 UN number or ID number ADR/ADN, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR/ADN IMDG, IATA	3082 ENVIRONMENTALLY HAZARDOUSUBSTANCE, LIQUID, N.O.S. (o-(isocyanatobenzyl)phenyl isocyanate, 4,4 methylenediphenyl diisocyanate) ENVIRONMENTALLY HAZARDOUSUBSTANCE, LIQUID, N.O.S. (o-(isocyanatobenzyl)phenyl isocyanate, 4,4 methylenediphenyl diisocyanate)
14.3 Transport hazard class(es)	
ADR/ADN	
(A) (*)	
Class	9 (M6) Miscellaneous dangerous substances a
Class	articles.
Label	
Class Label IMDG	articles.

www.bison.net 9/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

	(Contd. of page
Label	9
IATA  ***  ***  ***  ***  ***  **  **  **	
Class	<ul><li>9 Miscellaneous dangerous substances an articles.</li><li>9</li></ul>
14.4 Packing group ADR/ADN, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant: Special marking (ADR/ADN): Special marking (IATA):	No Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user  Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Miscellaneous dangerous substance and articles. 90 F-A,S-F A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L
ADR/ADN Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Transport category Tunnel restriction code	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100
Remarks:	ml Under certain conditions substances in Class (flammable liquids) can be classified i packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (O-(F

www.bison.net 10/12

- GB-EN



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 10)

· 4,4'-METHYLENEDIPHENYL DIISOCYANATE), 9, III

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b, 74
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- 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.

(Contd. on page 12)

GB-EN -

www.bison.net 11/12



# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.02.2022 Version number 33 (replaces version 32) Revision: 23.02.2022

Trade name: BIS PU MAX TR CQ 340G\*12 L106

(Contd. of page 11)

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity - inhalation Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitisation

Skin sensitisation Carcinogenicity

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated

exposure)

Hazardous to the aquatic environment - long-

term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: Bison QESH

· Contact: Reach coordinator

Date of previous version: 18.01.2022
Version number of previous version: 32

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

\* \* Data compared to the previous version altered.

GB-EN

www.bison.net 12/12