

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

NAME OF THE PRODUCT	BOSSFILL Polyurethane joints sealer
CODE	080027 (White, 300ml) 080028 (Grey, 300ml) 080029 (Black, 300ml)
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
ADDRESS	c/ Thomas Edison 16, Apartado de correos 95
CITY	08430 La Roca del Vallés (Barcelona)
TEL	+ 34 93 860 49 23
FAX	+34 93 871 23 36
E-MAIL	info@bossauto.com
WEB	www.bossauto.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

A. Regulation n°1272/2008 (CLP)

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2. Label elements

A. CLP Regulation (EC) n°1272/2008

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

- Hazard pictograms**



GHS08

- Signal word**

Danger

- Hazard-determining components of labelling**

4,4'-methylenediphenyl diisocyanate
 reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate.

- Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction

- Precautionary statements:**

P261 Avoid breathing vapours.

P284 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents and container in accordance with local regulations.

• **Phrases in case of sale to the general public:**

Persons already sensitized 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.

P280 Wear protective gloves.

• **Advised precautionary statements:**

P102 Keep out of reach of children.

• **Additional information:**

Contains isocyanates. May produce an allergic reaction.

• **Classification system:**

Non-irritating to rabbit's eye (method : OECD guideline 405)

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

VPVB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

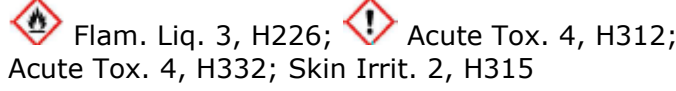
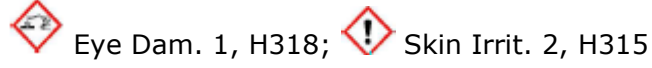
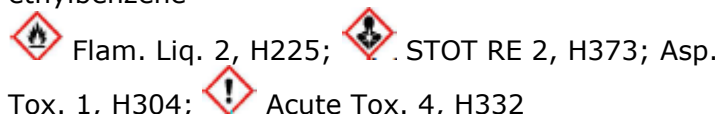
3.1. Substances








-

3.2. Mixtures

Description: Adhesive containing a polyurethane prepolymer based on diphenylmethanediisocyanate.

Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene, mixture of isomers 	4-7%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17	titanium dioxide substance with a Community workplace exposure limit	< 5%
CAS: 1305-78-8 EINECS: 215-138-9 Reg.nr.: 01-2119475325-36	calcium oxide 	< 2%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene 	< 2%
Número CE: 926-141-	hydrocarbons, C11-C14, n-alkanes, isoalkanes,	< 2%

6 Reg.nr.: 01- 2119456620-43	cyclics, < 2% aromatics  Asp. Tox. 1, H304	
CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01- 2119475151-45	calcium dihydroxide  Eye Dam. 1, H318;  Skin Irrit. 2, H315	< 1%
CAS: 101-68-8 EINECS: 202-966-0 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	< 0,5%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01- 2119384822-32	carbon black substance with a Community workplace exposure limit	< 0,5%
CAS: 1309-37-1 EINECS: 215-168-2 Reg.nr.: 01- 2119457614-35	diiron trioxide substance with a Community workplace exposure limit	< 0,5%
Reg.nr.: 01- 2119491304-40	reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Sens. 1A, H317	< 0,5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

A. General information

Immediately remove any clothing soiled by the product.

B. After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably in side position for transportation.

C. After skin contact

Immediately wash with water and soap and rinse thoroughly.

D. After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Drowsiness

Headache

Dizziness

Nausea

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

A. Suitable extinguishing agents

Carbon dioxide, foam, fire-extinguishing powder.

B. For safety reasons unsuitable extinguishing agents

Water with full jet.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3. Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Do not close them (reaction with water forming carbon dioxide).

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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:
 Keep receptacle tightly sealed.
 Store in dry conditions.
 Store in a cool place.

7.3. Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

1330-20-7 xylene, mixture of isomers	WEL Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Sk; BMGV
13463-67-7 titanium dioxide	WEL Long-term value: 10 mg/m ³
1305-78-8 calcium oxide	WEL Long-term value: 2 mg/m ³
100-41-4 ethylbenzene	WEL Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 88,4 mg/m ³ , 20 ppm Sk
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	WEL Long-term value: 1200 mg/m ³
1305-62-0 calcium dihydroxide	WEL Long-term value: 5 mg/m ³
101-68-8 4,4'-methylenediphenyl diisocyanate	WEL Short-term value: 0,2 mg/m ³ , 0,02 ppm Long-term value: 0,1 mg/m ³ , 0,01 ppm Sen; as -NCO
1333-86-4 carbon black	WEL Long-term value: 3.5 mg/m ³
1309-37-1 diiron trioxide	WEL Long-term value: 5 mg/m ³

Additional information system:

This document is based on the lists valid at the time of preparation.

8.2. Exposure controls

A. Personal protective equipment

- **General protective and hygienic measures**

Avoid close or long term contact with the skin.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke while working.

- **Breathing equipment**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device: Filter AB

- **Protection of hands**

PVA gloves of superior quality.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Eye protection**

Tightly sealed goggles.

- **Body protection**

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	Pasty
Colour	Various colours
Odour	Light
Melting point/Melting range	undetermined
Boiling point/Boiling range	137 °C
Flash point	> 75 °C (ISO 3679)
Flammability (solid)	The product is not subject to classification because its speed of combustion is lower than the limit of the regulation.
Self-ignition temperature	> 200 °C
Self-igniting	Product is not self-igniting at room temperature.
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits	
Lower	0.6 Vol %
Upper	7 Vol %
Density at 20 °C	1.15
Solubility in / Miscibility with	
Water	Not miscible or difficult to mix.

9.2. Other information

Volatile organic compounds (VOC)	Having at 293,15 K a vapour pressure of 0,01 kPa or more (directive 1999/13/EC) : < 9 %
----------------------------------	---

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, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour over pressure.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

A. Acute toxicity

LD/LC50 values that are relevant for classification:

1330-20-7 xylene, mixture of isomers		
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4 h	6350 mg/l (rat)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)

B. Primary irritant effect

On the skin: No irritant effect.

On the eye: No irritating effect.

Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

· Additional toxicological information:

Eye rabbit: non-irritant (Method: OECD Guideline 405)

· For more information, consult MSDS I.N.R.S. following:

129 (M.D.I.)

77 (xylene)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity

Given the available data, the classification criteria are not met.

· Carcinogenicity

Given the available data, the classification criteria are not met.

· Reproductive toxicity

Given the available data, the classification criteria are not met.

· Specific target organ toxicity - single exposure

Given the available data, the classification criteria are not met.

· Specific target organ toxicity - repeated exposure

Given the available data, the classification criteria are not met.

· Aspiration hazard

met.
Given the available data, the classification criteria are not met.
Additional toxicological information: Non-irritating to rabbit's eye (method: OECD guideline 405).

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.

· Additional ecological information: -

· General notes:

Water hazard class 2 (D) (Self-assessment): hazardous.

Do not allow product to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation: Must be disposed of in an incinerator for hazardous waste according to official regulations.

Waste disposal key: 08 04 09*

· Uncleansed packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1. UN Number

ADR, ADN, IMDG, IATA: Void.

14.2. UN proper shipping name

ADR, ADN, IMDG: Void.

IATA: Not regulated.

14.3. Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class: Void

14.4. Packing group

ADR, IMDG, IATA: Void

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

Not applicable.

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

Not applicable.

Transport/Additional information: Not classified as hazardous for transport as specified in paragraphs 2.2.41.1.5 of the ADR code, 2.4.2.2.1 of the IMDG code and 3.4.1.1.2.1 of the IATA code as the product is a solid and as its combustion speed is lower than 2.2 mm/s.

UN "Model Regulation": -

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.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 20, 56a

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

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. This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments; it is written according to annex II of the european regulation 453/2010/EC.

16.1. Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

16.2. Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized 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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

The statements made here should describe the product with regard to the necessary safety precautions – they are not meant to guarantee definite characteristics – but they are based on our present up-to-date knowledge. No responsibility