BOSSAUTO INNOVA, S.A.
Pol. Ind. Valldoriolf C/ Thomas Edison 16,
08430 La Roca del Vallés. Barcelona
t: +34 938 604 923 / f: +34 938 712 336
info@bossauto.com / **www.bossauto.com**

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

NAME OF THE PRODUCT BOSSEAL 60 minutes black glass, 300 ml
CODE 080045

2. HAZARDS IDENTIFICATION

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

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 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

Hazard statements

P315	Causes skin irritation
H319	Causes serious eye irritation
P334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
P412	Harmful to aquatic life with long lasting effects.

Precaution statements

P260	Do not breathe spray.
P284	In case of inadequate ventilation wear respiratory protection
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	ON SKIN: Wash with plenty of soap and water
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

Advised precautionary statements
P102 Keep out of reach of children.
· Additional information:
Contains isocyanates. May produce an allergic reaction.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Chemical characterisation: Mixtures
Description:
Product containing a polyurethane prepolymer based on diphenyl methanediisocyanate.

Dangerous components

Identification		
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32	Carbon black substance with a Community workplace exposure limit	15-25%
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	< 1%
CAS: 683-18-1 EINECS: 211-670-0 Reg.nr.: 01-2119496066-31	dibutyltin dichloride  Acute Tox. 3, H301 Acute Tox. 2, H330;  Muta. 2, H341 Repr. 1B, H360FD STOT RE 1, H372;  Skin Corr. 1B, H314  Aquatic Acute 1, H400 Aquatic Chronic 1, H410;  Acute Tox. 4, H312	< 0,1%
SVHC 683-18-1 dibutyltin dichloride		

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General indications:

Immediately remove any clothing soiled by the product.

After inhalation:

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

After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact:

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

After swallowing:

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Nausea
Dizziness
Headache
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Medical supervision for at least 48 hours.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray

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 (NOx)
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.

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.

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
Open and handle receptacle with care.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Information about storage in one common storage facility:
Not required.
Further information about storage conditions:
Protect from humidity and water.

7.3 Specific end use(s)
No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

8.1 Control parameters

Identification	Environmental values limits		
Carbon black CAS: 1333-86-4	WEL (short term) WEL (long term)	-- --	7mg/m^3 3,5mg/m^3
4'4 methylene diphenyl diisocyanate CAS: 101-68-8	WEL (short term) WEL (long term) Sen; as -NCO	-- --	0,07mg/m^3 0,02mg/m^3
Dibutyltin dichloride CAS: 683-18-1	WEL (short term) WEL (long term) as Sn; Sk	-- --	0,2mg/m^3 0,1mg/m^3

Additional indications additional:
The lists that were valid during the creation were used as basis

8.2 Exposure controls:

Personal protective equipment:

Respiratory protection
Use suitable respiratory protective device in case of insufficient ventilation: In case of brief exposure or low pollution use respiratory filte device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Short term filter device:
Filter AB.

Eyes and face protection
Tightly sealed goggles.

Protection of hands
Nitrile rubber gloves
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 cannot be calculated in advance and has therefore to be checked prior to the application.

Body protection
Protective work clothing.

Additional information
General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke while working.
Avoid contact with the eyes and skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance	
Form:	Pasty
Colour:	Black
Odour:	Without
Odour threshold:	Not determined.
pH-value:	Not applicable
Change in condition	
Melting point/freezing point:	Undetermined.
Boiling point/boiling range:	<190ºC
Flash point:	<90ºC
Flammability (solid):	Not determined
Self-ignition temperature:	<200 °C

Decomposition temperature:	<140ºC
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: Upper:	 0,6 Vol % 7 Vol %
Vapour pressure	Not applicable
Density at 20 °C	1.23
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable

9.2 Other information
No further relevant information available.

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 overpressure.

10.4 Conditions to avoid:
No further relevant information available.

10.5. Incompatible materials:
No further relevant information available.

10.6 Hazardous decomposition products:
None to our knowledge at room temperature

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
Acute toxicity:
Based on available data, the classification criteria are not met.

LC50 values that are relevant for classification:

Dibutyltin dichloride CAS: 683-18-1	Oral Dermal Inhalation	LD50 LD50 LC50	100 mg/kg(rat) -- --	-- -- --

Primary irritant effect

Eye and skin contact:

- **Skin contact**

Causes skin irritation.

- **Eye contact**

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

CMR effects (carcinogenetic, mutagenicity and reproductive toxicity)

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):

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

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):

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

Aspiration hazard

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

· Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

Other information:

The product is not easily biodegradable.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

Ecotoxic effects:

Remark:

Harmful to 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. Harmful to aquatic organisms.

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 CONSIDERATION

13.1 Waste treatment methods:
Recommendation
Must be disposed of in an incinerator for hazardous waste according to official regulations
Waste disposal key:
080409

Uncleaned packing
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,** **IATA**	Void 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:	Not applicable
14.6 Special precautions for user:	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation"	Void

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Directive 2012/18/UE
· Named dangerous substances - ANNEX I
None of the ingredients is listed.

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
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
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:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations
Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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 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)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 2: Acute toxicity, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
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
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
Repr. 1B: Reproductive toxicity, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3