

\* **1 Identification of the substance or mixture and of the supplier**

· **Other means of identification**

· Trade name: **727 POLAR HARDENER**

· Article number: B192

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

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC9a Coatings and paints, thinners, paint removers

· Process category PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· Environmental release category ERC2 Formulation into mixture

· Article category AC1 Vehicles

· Application of the substance / the mixture

Hardening agent/ Curing agent

Surface protection

· **Details of the supplier of the safety data sheet**

· Manufacturer/Supplier:

HB BODY S.A.

B' ENTRANCE BLOCK 50 DA9 & MB6 Str

THESSALONIKI INDUSTRIAL AREA

57.022, SINDOS

THESSALONIKI, GREECE

Ph: +30 2310 790 000

Fax: +30 2310 790 033

www.hbbody.com

email: hbbody@hbbody.com

· Further information obtainable from:

HB BODY S.A.

B' ENTRANCE BLOCK 50 DA9 & MB6 Str

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Ph: +30 2310 790 000

Fax: +30 2310 790 033

www.hbbody.com

email: hbbody@hbbody.com

· Emergency telephone number:

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

\* **2 Hazards identification**

· **Classification of the substance or mixture**



GHS02 flame

Flammable liquids Category 3

H226 Flammable liquid and vapour.

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**Trade name: 727 POLAR HARDENER**

GHS08 health hazard

Reproductive toxicity Category 1

H360 May damage fertility or the unborn child.



GHS07

Skin irritation Category 2

H315 Causes skin irritation.

Skin sensitisation Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3 H336 May cause drowsiness or dizziness.

Hazardous to the aquatic environment chronic Category 3 H412 Harmful to aquatic life with long lasting effects.

**Additional information:**

3.1B Flammable liquid

3.1C Flammable liquid

6.3A Substances that are irritating to the skin

9.1C Substances that are harmful in the aquatic environment

6.9 (Narcotic) Substances that are harmful to human target organs or systems

6.8B Substances that are suspected human reproductive or developmental toxicants

**Label elements**

GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS02



GHS07



GHS08

Signal word Danger

Hazard-determining components of labelling:

Isocyanates

n-butyl ester

dibutyltin dilaurate

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P405 Store locked up.

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

**Other hazards**

Results of PBT and vPvB assessment

This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT). This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).









PBT: Not applicable.

vPvB: Not applicable.

**Trade name: 727 POLAR HARDENER****3 Composition/Information on ingredients****Chemical characterisation: Mixtures**

Description: Mixture of hazardous substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 123-86-4	n-butyl ester	30-<35%
EINECS: 204-658-1	 Flammable liquids Category 3, H226	
Index number: 607-025-00-1	 Specific target organ toxicity - single exposure Category 3, H336	
RTECS: AF 7350000		
CAS: 1330-20-7	xylene	30-<35%
Index number: 601-022-00-9	 Flammable liquids Category 3, H226	
	 Acute dermal toxicity Category 4, H312; Acute inhalation toxicity Category 4, H332; Skin irritation Category 2, H315	
CAS: 28182-81-2	Isocyanates	25-<30%
NLP: 500-060-2	 Skin sensitisation Category 1, H317	
	Hazardous to the aquatic environment chronic Category 3, H412	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-<15%
EINECS: 203-603-9	 Flammable liquids Category 3, H226	
Index number: 607-195-00-7		
CAS: 77-58-7	dibutyltin dilaurate	≥0-<0.3%
EINECS: 201-039-8	 Acute oral toxicity Category 3, H301	
Index number: 050-030-00-3	 Germ cell mutagenicity Category 2, H341; Reproductive toxicity Category 1, H360; Specific target organ toxicity - repeated exposure Category 1, H372	
RTECS: WH 7000000		

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

**4 First aid measures****Description of first aid measures**

General information: Immediately remove any clothing soiled by the product.

**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.

After swallowing: If symptoms persist consult doctor.

**Information for doctor:**

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

**5 Fire fighting measures****Extinguishing media**

Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

Speial protective equipment and fire fighting procedures: No special measures required.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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**Trade name: 727 POLAR HARDENER**

HAZ CHEM CODE: 3YE

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

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

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

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

**Methods and material for containment and cleaning up:**

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**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****Handling:****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

**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.

**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Control parameters****Ingredients with limit values that require monitoring at the workplace:****123-86-4 n-butyl ester**WES (New Zealand) Short-term value: 713 mg/m<sup>3</sup>, 150 ppmLong-term value: 238 mg/m<sup>3</sup>, 50 ppmIOELV (EU) Short-term value: 723 mg/m<sup>3</sup>, 150 ppmLong-term value: 241 mg/m<sup>3</sup>, 50 ppm**1330-20-7 xylene**WES (New Zealand) Long-term value: 217 mg/m<sup>3</sup>, 50 ppm

oto, bio

IOELV (EU) Short-term value: 442 mg/m<sup>3</sup>, 100 ppmLong-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

**28182-81-2 Isocyanates**WES (New Zealand) Short-term value: 0.07 mg/m<sup>3</sup>Long-term value: 0.02 mg/m<sup>3</sup>

as -NCO; vapours,mist,dust; dsen,rsen,skin,ifv

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**Trade name: 727 POLAR HARDENER****108-65-6 2-methoxy-1-methylethyl acetate**

IOELV (EU) Short-term value: 550 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 275 mg/m<sup>3</sup>, 50 ppm  
Skin

**77-58-7 dibutyltin dilaurate**

WES (New Zealand) Short-term value: 0.1 0.02\* mg/m<sup>3</sup>  
Long-term value: 0.05 mg/m<sup>3</sup>  
\* if irritant; as Sn; skin

· **Regulatory information**

WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices

IOELV (EU): (EU) 2019/1831

· Additional information: The lists valid during the making were used as basis.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of 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 can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Rubber gloves

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

**Trade name: 727 POLAR HARDENER****9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

· Form:	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Mixture is non-soluble (in water).

**Change in condition**

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	124-128 °C
· Flash point:	23 - 60 °C
· Flammability	Flammable.
· Autoignition temperature:	315 °C
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· Explosion limits:	
· Lower:	1.1 Vol %
· Upper:	10.8 Vol %
· Vapour pressure at 20 °C:	10.7 hPa

**Vapour pressure:**

· Density at 20 °C:	0.95794-0.96011 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic at 20 °C:	0 mm <sup>2</sup> /s
· Solvent content:	
· Organic solvents:	72.8 %
· VOC (EC)	697.5-699.1 g/l
· Solids content (volume):	27.2 %

**Other information**

· Particle characteristics	Not applicable.
· Physical state	Liquid

**10 Stability and reactivity**

· **Reactivity** No further relevant information available.

**Chemical stability**

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** No dangerous decomposition products known.

**Trade name: 727 POLAR HARDENER****11 Toxicological information****Information on toxicological effects**

- Acute toxicity
- LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral LD50 109,375 mg/kg (rat)  
 Dermal LD50 6,452 mg/kg (rabbit)  
 Inhalative LC50/4 h 35.5 mg/l

**123-86-4 n-butyl ester**

Oral LD50 13,100 mg/kg (rat)  
 Dermal LD50 >5,000 mg/kg (rabbit)  
 Inhalative LC50/4 h >21 mg/l (rat)

**1330-20-7 xylene**

Oral LD50 4,300 mg/kg (rat)  
 Dermal LD50 2,000 mg/kg (rabbit)  
 Inhalative LC50/4 h 11 mg/l (ATE)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral LD50 8,532 mg/kg (rat)  
 Inhalative LC50/4 h 35.7 mg/l (rat)

**77-58-7 dibutyltin dilaurate**

Oral LD50 175 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation Irritant to skin and mucous membranes.
- Serious eye damage/irritation No irritating effect.
- Respiratory or skin sensitisation  
Sensitisation possible through skin contact.  
Sensitising effect through inhalation is possible by prolonged exposure.
- Additional toxicological information:  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
Reproductive toxicity Category 1

**12 Ecological information****Toxicity**

- Aquatic toxicity:  
This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

**Persistence and degradability**

This product contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

**Behaviour in environmental systems:**

- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.

**Ecotoxicological effects:**

- Remark: Harmful to fish

**Additional ecological information:**

- General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**Trade name: 727 POLAR HARDENER**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**

· PBT: This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).

· vPvB: This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**· **Waste treatment methods**

· Recommendation

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

· **Uncleaned packaging:**

· Recommendation: Disposal must be made according to official regulations.

**14 Transport information**· **UN-Number**

· NZS, IMDG, IATA

UN1263

· **UN proper shipping name**

· NZS

UN1263 PAINT RELATED MATERIAL

· IMDG, IATA

PAINT RELATED MATERIAL

· **Transport hazard class(es)**

· NZS



· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· **Packing group**

· NZS, IMDG, IATA

III

· **Environmental hazards:**

· Marine pollutant:

No

· **Special precautions for user**

Warning: Flammable liquids.

· Hazard identification number (Kemler code):

30

· EMS Number:

F-E, S-E

· Stowage Category

A

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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**Trade name: 727 POLAR HARDENER**

**Transport/Additional information:**

- NZS
  - Limited quantities (LQ) 5L
  - Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3
- Tunnel restriction code D/E
- IMDG
  - Limited quantities (LQ) 5L
  - Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- IATA
- Remarks: HAZ CHEM CODE: 3YE
- **UN "Model Regulation":** UN 1263 PAINT RELATED MATERIAL, 3, III

**15 Regulatory information**

•3Y

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

- 28182-81-2 Isocyanates (25-<30%)
- New Zealand Inventory of Chemicals

All ingredients are listed.

- HSNO Approval numbers
  - HSNO Approval number HSR 002662
  - Group standard name Surface Coatings and Colourandts (Flammable) Group Standard 2006
  - HSNO Hazard classification Refer to section 2
  - 123-86-4 n-butyl ester: HSR001091
  - 1330-20-7 xylene: HSR000983
  - 77-58-7 dibutyltin dilaurate: HSR003610

- GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms



GHS02 GHS07 GHS08

- Signal word Danger
- Hazard-determining components of labelling:
  - Isocyanates
  - n-butyl ester
  - dibutyltin dilaurate
- Hazard statements
  - H226 Flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H360 May damage fertility or the unborn child.
  - H336 May cause drowsiness or dizziness.
  - H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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**Trade name: 727 POLAR HARDENER**

- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**16 Other information**

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

· **Reasons for alterations**· **Relevant phrases**

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Department of Quality Control· **Contact:**

HB BODY S.A  
Regulatory Officer  
Ms Athina Kapourani  
Ph: +30 2310 790000  
email: a.kapourani@hbbody.com

- \* Data compared to the previous version altered.

**Trade name: 727 POLAR HARDENER****Annex: Exposure scenario****Short title of the exposure scenario****Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category PC9a** Coatings and paints, thinners, paint removers**Process category**

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

**Article category AC1** Vehicles**Environmental release category ERC2** Formulation into mixture**Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

**Conditions of use** According to directions for use.**Duration and frequency** Frequency of use:**Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

**Physical state** Fluid**Concentration of the substance in the mixture** The substance is main component.**Used amount per time or activity** Smaller than 100 g per application.**Other operational conditions****Other operational conditions affecting environmental exposure** Use only on hard ground.**Other operational conditions affecting worker exposure**

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid contact with eyes.

**Other operational conditions affecting consumer exposure** No special measures required.**Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

**Risk management measures****Worker protection****Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaust or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

**Technical protective measures**

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

Provide explosion-proof electrical equipment.

**Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protective gloves**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Pregnant women should strictly avoid inhalation or skin contact.

Avoid contact with the eyes.

Tightly sealed goggles

**Trade name: 727 POLAR HARDENER**

- **Measures for consumer protection**  
Ensure adequate labelling.  
Observe consumer information and advice on safe use.
- **Environmental protection measures**
- **Water**  
Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.  
Do not allow to reach sewage system.
- **Soil**  
Prevent contamination of soil.  
The product is only processed over the concrete collecting basin.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer**  
This product is to be used by professional technicians only.  
Not relevant for this Exposure Scenario.
- **Guidance for downstream users**  
Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.