Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· **Product identifier**

· Trade name: **H736 EPOXY HARDENER 1:1**

· Article number: 11138

· Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

· Life cycle stages IS Use at industrial Sites

· Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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

· Process category
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

· Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article

· Article category AC1 Vehicles

· Technical function Hardener

· Application of the substance / the mixture 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:
SYDNEY AUTOMOTIVE PAINTS & EQUIPMENT PTY LTD
UNIT A3, 366 EDGAR ST. CONDELL PARK NSW 2200
AUSTRALIA, Tel. +02 9772 9000 , +02 9772 9001

· Emergency telephone number:
If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126, New Zealand 0800 764 766.

2 Hazard(s) Identification

· **Classification of the substance or mixture**

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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Trade name: H736 EPOXY HARDENER 1:1 AU

health hazard

Carc. 2	H351	Suspected of causing cancer.

corrosion

Eye Dam. 1	H318	Causes serious eye damage.

Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· **Label elements**

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

· Hazard pictograms

GHS02 GHS05 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
4-methylpentan-2-one
butan-1-ol
xylene

· Hazard statements

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
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

· PBT: Not applicable.

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· vPvB: Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

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

· Dangerous components:

CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 RTECS: SA 9275000	4-methylpentan-2-one Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	40-<45%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 RTECS: EO 1400000	butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	25-<30%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 RTECS: ZE 2100000	xylene Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	20-<25%

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

4 First Aid Measures

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

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

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **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

· **Suitable extinguishing agents:**
CO2, 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

· **Special protective equipment and fire fighting procedures:** Mouth respiratory protective device.

· **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

· Continue on page 4
AU

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** 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).
Use neutralising agent.
Dispose contaminated material as waste according to item 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.
· **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:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.
· **Ingredients with limit values that require monitoring at the workplace:**

108-10-1 4-methylpentan-2-one
WES Short-term value: 307 mg/m^3, 75 ppm
Long-term value: 205 mg/m^3, 50 ppm

71-36-3 butan-1-ol
WES Peak limitation: 152 mg/m^3, 50 ppm
Sk

1330-20-7 xylene
WES Short-term value: 655 mg/m^3, 150 ppm
Long-term value: 350 mg/m^3, 80 ppm

· Additional information: The lists valid during the making were used as basis.
· **Personal protective equipment:**
· General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.

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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

Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and Chemical Properties

· **General Information**	
· Appearance:	
· Form:	Liquid
· Colour:	Light yellow
· Odour:	Amine-like
· Odour threshold:	Not determined.
· **pH-value at 20 °C:**	9
· **Change in condition**	
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	114-117 °C
· **Flash point:**	< 23 °C
· **Flammability (solid, gas):**	Highly flammable.
· **Autoignition temperature:**	340 °C
· Decomposition temperature:	Not determined.
· **Auto-ignition temperature:**	Product is not self igniting.

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· **Explosive properties:**	Risk of explosion by shock, friction, fire or other sources of ignition.
· **Explosion limits:**	
· Lower:	1.1 Vol %
· Upper:	9.4 Vol %
· **Vapour pressure at 20 °C:**	6.7-8.2 hPa
· **Density at 20 °C:**	0.83054 g/cm3
· 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:	Not determined.
· **Solvent content:**	
· Organic solvents:	90.3 %
· VOC (EC)	749.6 g/l
· Solids content (volume):	9.6 %
· **Other information**	No further relevant information available.

10 Stability and Reactivity

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

* 11 Toxicological Information

· **Information on toxicological effects**
· Acute toxicity Harmful if inhaled.
· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	3,160 mg/kg (rat)
Dermal	LD50	8,478 mg/kg (rabbit)
Inhalative	LC50/4 h	14-21.5 mg/l

108-10-1 4-methylpentan-2-one

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (ATE)
		8.3-16.6 mg/l (rat)

71-36-3 butan-1-ol

Oral	LD50	790 mg/kg (rat)

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Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 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)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitization Based on available data, the classification criteria are not met.
- Germ cell mutagenicity 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. May cause drowsiness or dizziness.
- STOT-repeated exposure 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

- **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.
- **Additional ecological information:**
- General notes:
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Must not reach sewage water or drainage ditch undiluted or unneutralised.
  Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- PBT: This product contains no substance that is considered to be persistent,bioaccumulating or non toxic(PBT).
- vPvB: Not applicable.
- **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.

· Continue on page 8
AU

Trade name: H736 EPOXY HARDENER 1:1 AU

14 Transport information

· **UN-Number**	
· ADG, IMDG, IATA	UN1263
· **UN proper shipping name**	
· ADG	UN1263 PAINT, special provision 640D
· IMDG, IATA	PAINT
· **Transport hazard class(es)**	
· ADG	

· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	

· Class	3 Flammable liquids.
· Label	3
· **Packing group**	
· ADG, IMDG, IATA	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-E
· Stowage Category	B
· **Transport in bulk according to Annex II of**	
· **Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· ADG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1263 PAINT, 3, II

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15 Regulatory information

· 3YE

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

None of the ingredients is listed.

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

108-10-1	4-methylpentan-2-one: S5
71-36-3	butan-1-ol: S5, S6
1330-20-7	xylene: S6

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

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

· Hazard pictograms

GHS02 GHS05 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
4-methylpentan-2-one
butan-1-ol
xylene

· Hazard statements

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
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.

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AU

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.

· Relevant phrases
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

· Contact:
HB BODY S.A
Ms Olympia Stamkou
Ph: +30 2310 790 032
fax: +30 2310 790 033
email: stamkou@hbbody.com

* Data compared to the previous version altered.

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* **Annex: Exposure scenario**

· **Short title of the exposure scenario**
· Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· Product category PC9a Coatings and paints, thinners, paint removers
· Process category
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
· Article category AC1 Vehicles
· Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article
· Technical function Hardener
· **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 No special measures required.
· Other operational conditions affecting worker exposure
Avoid contact with eyes.
Avoid contact with the skin.
Do not breathe gas/vapour/aerosol.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
· 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 exhaustion 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
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines
· Personal protective measures
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes.
Tightly sealed goggles
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

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- Measures for consumer protection
  Ensure adequate labelling.
  Observe consumer information and advice on safe use.
- Environmental protection measures
- Water
  Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.
  Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.
- 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.