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

· **Other means of identification**

· Trade name: **H729 HARDENER FOR PRIMERS NORMAL**

· Article number: W048
· Relevant identified uses of the substance or mixture and uses advised against
· Life cycle stages F Formulation or re-packing
· 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 PC9b Fillers, putties, plasters, modelling clay
· 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
· 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:
Wyatt Machine Tools (Rupes) NZ Limited
Address: 388 Church Street, Penrose, Auckland
Ph (09) 525 1000; Fax (09) 525 1009
Emergency telephone number: NZ Emergency 0800 992 881 (0800WYATT1)
· Emergency telephone number:
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

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2 Hazards identification

· **Classification of the substance or mixture**

GHS02 flame

Flammable liquids Category 3	H226 Flammable liquid and vapour.

GHS07

Skin irritation Category 2	H315 Causes skin irritation.
Skin sensitisation Category 1	H317 May cause an allergic skin reaction.

Continue on page 2

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

· **Label elements**

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

· Hazard pictograms

GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labelling:
Isocyanates
n-butyl ester

· Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.

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3 Composition/Information on ingredients

· **Chemical characterisation: Mixtures**

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

· Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 RTECS: AF 7350000	n-butyl ester Flammable liquids Category 3, H226 Specific target organ toxicity - single exposure Category 3, H336	30-<35%
CAS: 1330-20-7 Index number: 601-022-00-9	xylene Flammable liquids Category 3, H226 Acute dermal toxicity Category 4, H312; Acute inhalation toxicity Category 4, H332; Skin irritation Category 2, H315	30-<35%

Continue on page 3

Trade name: H729 HARDENER FOR PRIMERS NORMAL

CAS: 28182-81-2 NLP: 500-060-2	Isocyanates Skin sensitisation Category 1, H317 Hazardous to the aquatic environment chronic Category 3, H412	25-<30%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate Flammable liquids Category 3, H226	10-<15%

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

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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.

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5 Fire fighting measures

· **Extinguishing media**
· 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
· 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.
HAZ CHEM CODE: 3YE

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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.

Continue on page 4

Trade name: H729 HARDENER FOR PRIMERS NORMAL

7 Handling and storage

· **Handling:**
· Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **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.

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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: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm
IOELV (EU)	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm

1330-20-7 xylene

WES (New Zealand)	Long-term value: 217 mg/m³, 50 ppm oto, bio
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin

28182-81-2 Isocyanates

WES (New Zealand)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ as -NCO; vapours,mist,dust; dsen,rsen,skin,ifv

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

IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm 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.
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.

Continue on page 5

Trade name: H729 HARDENER FOR PRIMERS NORMAL

· 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 trough 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

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· General Information	
· Appearance:	
· Form:	Liquid
· Colour:	Colourless
· 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:	0.95776-0.95992 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

Continue on page 6

· 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 mm²/s
· Solvent content:
· Organic solvents: 73.0 %
· VOC (EC) 698.9-700.5 g/l
· Solids content (volume): 0.0 %
· **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.

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11 Toxicological information

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

ATE (Acute Toxicity Estimates)

Dermal	LD50	6,472 mg/kg (rabbit)
Inhalative	LC50/4 h	35.6 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)

· 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:

Continue on page 7

Irritant

* **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 prouduct 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.
· **Ecotoxical 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
· **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.

14 Transport information

· **UN-Number**
· NZS, IMDG, IATA UN1263
· **UN proper shipping name**
· NZS UN1263 PAINT
· IMDG, IATA PAINT
· **Transport hazard class(es)**
· NZS

· Class 3 (F1) Flammable liquids.

Continue on page 8

Trade name: H729 HARDENER FOR PRIMERS NORMAL

· Label	3
· IMDG, IATA	

· Class	3 Flammable liquids.
· Label	3
· **Packing group**	
· NZS, IMDG, IATA	III
· **Environmental hazards:**	Not applicable.
· **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.
· **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, 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

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

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Trade name: H729 HARDENER FOR PRIMERS NORMAL

· Hazard pictograms

GHS02 GHS07

· Signal word Warning
· Hazard-determining components of labelling:
Isocyanates
n-butyl ester
· Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.

· 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.
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.
H412 Harmful to aquatic life with long lasting effects.
· **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.

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Trade name: H729 HARDENER FOR PRIMERS NORMAL

* **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 PC9b Fillers, putties, plasters, modelling clay
· 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
· 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.
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 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
Use product only in enclosed systems.
· 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
Avoid contact with the eyes.

Continue on page 11

Tightly sealed goggles

· 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
The product is only processed over the concrete collecting basin.
Prevent contamination of soil.

· **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 technitians 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.