

## SAFETY DATA SHEET

HARDER

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Compilation date: 28-06-2017

Revision No: 1

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** HARDER

**Product code:** 5833-5835

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Use in Coatings: Hardener

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** ProPart International B.V.

Molenakker 3

Reuver

5953 TW

The Netherlands

**Tel:** +31 (0) 77 476 2368

**Fax:** +31 (0) 77 476 2424

**Email:** [info@propart-international.com](mailto:info@propart-international.com)

#### 1.4. Emergency telephone number

**Emergency tel:** +31 (0) 77 476 2368 (08.30-17.00)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Flam. Liq. 3: H226; Skin Sens. 1: H317; STOT SE 3: H336; Aquatic Chronic 3: H412; -: EUH204

**Most important adverse effects:** Flammable liquid and vapour. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Contains isocyanates. May produce an allergic reaction.

#### 2.2. Label elements

**Label elements:**

**Hazard statements:** H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

EUH204: Contains isocyanates. May produce an allergic reaction.

**Hazard pictograms:** GHS02: Flame

GHS07: Exclamation mark



[cont...]

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**Signal words:** Warning

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

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P363: Wash contaminated clothing before reuse.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container to hazardous or special waste collection point.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

##### N-BUTYL ACETATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
204-658-1	123-86-4	-	Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066	40.000%

##### POLY(HEXAMETHYLENE DIISOCYANATE)

-	28182-81-2	-	Eye Irrit. 2: H319; Skin Sens. 1: H317	30.000%
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##### XYLENE

215-535-7	1330-20-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	5.000%
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##### LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

265-199-0	64742-95-6	-	Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411	5.000%
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##### 2-METHOXY-1-METHYLETHYL ACETATE

203-603-9	108-65-6	Substance with a Community workplace exposure limit.	Flam. Liq. 3: H226	5.000%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Use an approved skin cleanser.

**Eye contact:** Remove contact lenses. Ensure adequate flushing of eyes by separating eyelids with the fingers.

**Ingestion:** Call a doctor immediately. Do not induce vomiting.

**Inhalation:** Provide fresh air. In case of complaints consult doctor.

[cont...]

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

**Skin contact:** Repeated or prolonged contact with the preparation may result in removal of the natural fat of the skin, resulting in non-allergic skin inflammation and absorption through the skin. Symptoms and symptoms include headache, dizziness, fatigue, muscle weakness, drowsiness and in extreme cases unconsciousness.

**Eye contact:** When fluid spills into the eyes, this can cause irritation and recoverable damage.

**Ingestion:** In case of swallowing consult a doctor immediately.

**Inhalation:** Exposure to occupational exposure may have adverse effects on health: Irritation of mucous membranes and respiratory system, as well as adverse effects on kidneys, liver and central nervous system. Symptoms may include irritation of mucous membranes and respiratory tract, as well as adverse effects on kidneys, liver and central nervous system.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises. Treat symptomatically. Never give anything by mouth to an unconscious person. In case of doubt or in case of persistent symptoms, call for medical attention.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Alcohol resistant foam. Do not use water. Sand or earth. CO2 powders.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes. May contain carbon monoxide, carbon dioxide, nitrogen oxides.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Vapor in the air can form an explosive mixture with air. Remove all ignition sources.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Ensure adequate ventilation. Do not breathe vapor.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Notify authorities if product enters sewers or public waters.

[cont...]

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## 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. Collect spillage with non-combustible absorbent material such as sand, earth, vermiculite and dispose of it in a waste container in accordance with local regulations (see section 13).

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. See section 7 for information on safe handling Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Prevent the formation of flammable or explosive concentrations of vapors in the air. Eating, drinking, smoking and storing food is prohibited in workspace. Keep ignition sources away. Protect against electrostatic charges. Keep away from heat, sparks and flames. To eliminate static electricity during transport, the vessel must be earthed and connected to the receptacle using a tie strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. If employees, even if they are not in the process of processing the product, are in a spray booth, ventilation should be present for any spray particles and solvent vapors. In these circumstances, they must wear a hood during the spraying process until the concentration has dropped below the MAC value. Vapors are heavier than air and can spread over floors. Vapors may form an explosive mixture with air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Do not smoke. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from alkalis, oxidizing substances, acids. Do not throw waste in the sink. Keep only in original container.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

[cont...]

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## N-BUTYL ACETATE

### Workplace exposure limits:

### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	724 mg/m <sup>3</sup>	966 mg/m <sup>3</sup>	-	-

## XYLENE

UK	220 mg/m <sup>3</sup>	441 mg/m <sup>3</sup>	-	-
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## 2-METHOXY-1-METHYLETHYL ACETATE

UK	274 mg/m <sup>3</sup>	548 mg/m <sup>3</sup>	-	-
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### DNEL/PNEC Values

DNEL / PNEC No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Where possible, this must be achieved through the use of local air outlet and good general suction capacity. If these are insufficient to maintain concentrations of particulate matter and vapors of solvents below the batch exposure limit, a suitable respiratory protective device should be worn.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Dry sanding of a paint coating, or machining with burners and/or welding equipment of coated objects can cause harmful dust and/or vapors. If possible, wet sanding should be preferred. In case of intensive or longer exposure or low pollution use self-contained respiratory protective device.

**Hand protection:** Protective gloves. Use suitable gloves (EN375) for prolonged or repeated use. Type: Nitrile.

**Eye protection:** Safety glasses. Ensure eye bath is to hand. Use eye protection (EN166) against splashing of liquids.

**Skin protection:** Protective clothing. Workers should wear anti-static clothing of a natural material or of a heat-resistant synthetic material.

**Environmental:** Do not let away in sewers or water courses. See also sections 7 and 12.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Transparent.

**Odour:** Characteristic odour

**Solubility in water:** Insoluble

**Flash point°C:** >+23

**Relative density:** 0,97 +/- 0,05 (20°C)

[cont...]

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## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes. Carbon monoxide, carbon dioxide and nitrogen oxides.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
108-65-6	-	-	-	-
ORAL	RAT	LD50	>10000	mg/kg
1330-20-7	-	-	-	-
DERMAL	RBT	LD50	>4350	mg/kg
123-86-4	-	-	-	-
DERMAL	RBT	LD50	141400	mg/kg
64742-95-6	-	-	-	-
ORAL	RAT	LD50	>3500	mg/kg
28182-81-2	-	-	-	-
DERMAL	RBT	LD50	600	mg/kg

[cont...]

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## Hazardous ingredients:

### N-BUTYL ACETATE

ORL	MUS	LD50	6	gm/kg
ORL	RAT	LD50	10768	mg/kg

### XYLENE

ORL	MUS	LD50	2119	mg/kg
ORL	RAT	LD50	4300	mg/kg
SCU	RAT	LD50	1700	mg/kg

### LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

ORL	RAT	LD50	8400	mg/kg
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### 2-METHOXY-1-METHYLETHYL ACETATE

IPR	MUS	LD50	750	mg/kg
ORL	RAT	LD50	8532	mg/kg

## Relevant hazards for product:

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** Repeated or prolonged contact with the preparation may result in removal of the natural fat of the skin, resulting in non-allergic skin inflammation and absorption through the skin. Symptoms and symptoms include headache, dizziness, fatigue, muscle weakness, drowsiness and in extreme cases unconsciousness.

**Eye contact:** When fluid spills into the eyes, this can cause irritation and recoverable damage.

**Ingestion:** In case of swallowing consult a doctor immediately.

**Inhalation:** Exposure to occupational exposure may have adverse effects on health: Irritation of mucous membranes and respiratory system, as well as adverse effects on kidneys, liver and central nervous system. Symptoms may include irritation of mucous membranes and respiratory tract, as well as adverse effects on kidneys, liver and central nervous system.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

[cont...]

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## Ecotoxicity values:

Species	Test	Value	Units
CAS 108-65-6	-	-	-
Daphnia magna	48H EC50	>500	mg/l
CAS 1330-20-7	-	-	-
Daphnia magna	24H EC50	150	mg/l
CAS 123-86-4	-	-	-
Daphnia magna	24H EC50	73	mg/l
CAS 64742-81-2	-	-	-
Daphnia magna	24H EC50	170	mg/l

## 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

## 12.4. Mobility in soil

**Mobility:** No data available.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Do not let away in sewers or water courses. The classification of the product may meet the criteria for a hazardous waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN1263

### 14.2. UN proper shipping name

**Shipping name:** PAINT

[cont...]



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## 14.3. Transport hazard class(es)

Transport class: 3

## 14.4. Packing group

Packing group: III

## 14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

## 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 3

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** The product is classified and labeled for delivery in accordance with Directive 1999/45 / EC. The Safety Data Sheet has been prepared in accordance with EU Regulation (EC) No. 1907/2006 (REACH). In accordance with EU Directive 2004/42 / EC: 2004/42 / IIA (i) (500) 500.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH066: Repeated exposure may cause skin dryness or cracking.

EUH204: Contains isocyanates. May produce an allergic reaction.

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.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

[cont...]

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**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

