

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Hardener Advanced 2K

**Product no.**

-

**REACH registration number**

Not applicable

**Other means of identification**

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

**Relevant identified uses of the substance or mixture**

wood surfaces, indoors

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

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

**Company and address**

WoodCare Denmark A/S

Tvæervej 6

6640 Lunderskov

Denmark

Tel: 99585600

Fax: 99585634

**Contact person**

LFH

**E-mail**

info@ttwoodcare.com

**SDS date**

05-11-2013

**SDS Version**

1.0

### 1.4. Emergency telephone number

Use your national or local emergency number

See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Sens. 1, Skin Irrit. 2, Eye Dam. 1, Muta. 2 // H341, H336, H318, H317, H315

See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

Harmful. (Xn).

Possible risk of irreversible effects.(R68). May cause sensitisation by skin contact.(R43). Risk of serious damage to eyes.(R41). Irritating to skin.(R38).

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger!

**Hazard statement(s)**

- Causes skin irritation. (H315)
- May cause an allergic skin reaction. (H317)
- Causes serious eye damage. (H318)
- May cause drowsiness or dizziness. (H336)
- Suspected of causing genetic defects. (H341)

**Identity of the substances primarily responsible for the major health hazards**

2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propan-1,3-diylbis(2-methylaziridin-1-propionat)

<b>Safety statement(s)</b>	<b>General</b>	If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102)
	<b>Prevention</b>	Wear protective gloves/protective clothing/eye protection/face protection. (P280)
	<b>Response</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
	<b>Storage</b>	Store locked up. (P405)
	<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant. (P501)

**2.3. Other hazards**

**Additional labelling**

-

**Additional warnings**

Tactile warning.

**VOC**

-

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances**

NAME:	2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propan-1,3-diylbis(2-methylaziridin-1-propionat)
IDENTIFICATION NOS.:	CAS-no: 64265-57-2 EC-no: 264-763-3
CONTENT:	80-95%
DSD CLASSIFICATION:	Xi;R38 R41 R43 Mut3;R68
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Muta. 2 H315, H317, H318, H341

(\*) See full text of H/R-phrases in chapter 16. Occupational limits are listed in section 8, if these are available.

**Other informations**

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

**Inhalation**

Get the person into fresh air and stay with them.

#### **Skin contact**

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### **Eye contact**

Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

#### **Ingestion**

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### **Burns**

Rinse with water until the pain stops and continue for 30 minutes.

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

**Sensitivity effects:** This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it. **Irritation effects:** This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

No special

#### **Information to medic**

Bring this safety data sheet.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

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

No special

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact.

### **SECTION 6: Accidental release measures**

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

Avoid direct contact with spilled substances. Avoid inhalation of vapours from waste material.

#### **6.2. Environmental precautions**

No specific requirements.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

#### **6.4. Reference to other sections**

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Smoking, consumption of food or liquid, and storage of tobacco, food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### **Storage temperature**

Store frost-free.

### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

No data available

#### DNEL / PNEC

No data available.

### 8.2. Exposure controls

No control is necessary if the product is used in a normal way.

#### General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

#### Exposure limits

There are no maximum exposure limits for the substances contained in this product.

#### Appropriate technical measures

Take ordinary precautions when using the product. Avoid inhalation of gas or dust.

#### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible collect spillage during work.

### Individual protection measures, such as personal protective equipment



#### Generally

Only CE-marked personal protection equipment should be used.

#### Respiratory Equipment

No specific requirements.

#### Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

#### Hand protection

Recommended: Nitrile rubber. . Breakthrough time: See the manufacturer's instructions

#### Eye protection

Use face shield. Use safety glasses with a side shield as an alternative.

## SECTION 9: Physical and chemical properties

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

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Liquid	Pale yellow	NA	-	-	1,08
<b>Phase changes</b>					
Melting point (°C)		Boiling point (°C)		Vapour pressure (mm Hg)	
-		-		-	
<b>Data on fire and explosion hazards</b>					
Flashpoint (°C)		Ignition (°C)		Self ignition (°C)	
>100		-		-	
Explosion limits (Vol %)		Oxidizing properties			
-		-			
<b>Solubility</b>					
Solubility in water		n-octanol/water coefficient			

Soluble	-
<b>9.2. Other information</b>	
Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidising agents, and strong catabolic agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance	Species	Test	Route of exposure	Result
2-ethyl-2-[[3-(2-methylaziridi...	Rat	LD50	Oral	2038mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

No data available.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Long term effects

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Test duration	Result
No data available.				

### 12.2. Persistence and degradability

According to EC-Regulation 1907/2006 (REACH)

Substance	Biodegradability	Test	Result
No data available.			
<b>12.3. Bioaccumulative potential</b>			
Substance	Potential bioaccumulation	LogPow	BFC
No data available.			
<b>12.4. Mobility in soil</b>			
No data available			
<b>12.5. Results of PBT and vPvB assessment</b>			
No data available			
<b>12.6. Other adverse effects</b>			
No special			

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code

-

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.

### 14.1 – 14.4

ADR/RID	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group	Notes	
IMDG	UN-no.	Proper Shipping Name	Class	PG*	EmS MP**	Hazardous constituent

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC. For exceptions, see the Danish Working Environment Authority's Executive Order No. 239 of 6 April 2005.

#### Demands for specific education

-

#### Additional information

-

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information'

### Sources

According to EC-Regulation 1907/2006 (REACH)

EC regulation 1907/2006 (REACH)  
Directive 2000/532/EC  
EC Regulation 1272/2008 (CLP)

**Full text of H/R-phrases as mentioned in section 3**

R38 - Irritating to skin.  
R41 - Risk of serious damage to eyes.  
R43 - May cause sensitisation by skin contact.  
R68 - Possible risk of irreversible effects.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H341 - Suspected of causing genetic defects.

**The full text of identified uses as mentioned in section 1**

**Other symbols mentioned in section 2**

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**Other**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.  
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.  
A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

LFH

**Date of last essential change  
(First cipher in SDS version)**

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**Date of last minor change  
(Last cipher in SDS version)**

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