

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Master 2K Hardener

Product no.

-

REACH registration number

01-2119963929-15-0000

Unique formula identifier (UFI)

-

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

WOCA Denmark A/S

Tværvej 6

6640 Lunderskov

Denmark

TEL +45 99585600

Fax +45 99585636

Contact person

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E-mail

info@wocadenmark.com

SDS date

2019-09-20

SDS Version

5.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute Tox. 4; H302

Skin Sens. 1; H317

Eye Dam. 1; H318

Muta. 2; H341

STOT RE 2 (oral); H373

Aquatic Chronic 2; H411

See full text of H-phrases in section 2.2.

2.2. Label elements

▼ **Hazard pictogram(s)**

**Signal word**

Danger

Hazard statement(s)

Harmful if swallowed. (H302)

May cause an allergic skin reaction. (H317)

Causes serious eye damage. (H318)

Suspected of causing genetic defects. (H341)

May cause damage to organs through prolonged or repeated exposure. (H373)

Toxic to aquatic life with long lasting effects. (H411)

Precautionary statements**General** If medical advice is needed, have product container or label at hand. (P101).

Keep out of reach of children. (P102).

Prevention

Wear eye protection. (P280).

Response

Immediately call a POISON CENTER/doctor. (P310).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

Storage

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Disposal

Dispose of contents/container to an approved waste disposal plant. (P501).

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

2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate. CAS no.: 64265-57-2

▼ 2.3. Other hazards

Not applicable

▼ Additional labelling

Not applicable

Additional warnings

Tactile warning.

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients**▼ 3.1/3.2. Substances/Mixtures**

NAME:	2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate
IDENTIFICATION NOS.:	CAS-no: 64265-57-2 EC-no: 264-763-3 REACH-no: 01-2119963929-15-0000
CONTENT:	95-100%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Sens. 1, Eye Dam. 1, Muta. 2, STOT RE 2, Aquatic Chronic 2 H302, H317, H318, H341, H373, H411

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

Other information

ATEmix(oral) = 400 - 600

Eye Cat. 1 Sum = $\sum(Ci/S(G)CLi) = 26,6664 - 39,9996$ N chronic (CAT 2) Sum = $\sum(Ci/(M(\text{chronic})^*25)^*0.1^*10^{\wedge}CATi) = 3,2 - 4,8$ **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.

The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

▼ **Inhalation**

Bring the person into fresh air and stay with him/her.

▼ **Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

▼ **Eye contact**

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

▼ **Ingestion**

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

▼ **5.1. Extinguishing media**

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

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

Nothing special

▼ **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

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 spilled material.

▼ **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

▼ **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. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

▼ **6.4. Reference to other sections**

See section on "Disposal considerations" in regard of 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, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. 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 container. 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 quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

▼ OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

▼ DNEL / PNEC

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 1,62 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 8,4 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 11,1 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,023 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,417 mg/cm²

Exposure: Dermal

Duration of Exposure: Short term – Local effects - Workers

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,972 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,278 mg/kg bw/d

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 5,5 µg/l

Exposure: Freshwater

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,55 µg/l

Exposure: Marine water

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 10 mg/l

Exposure: Sewage Treatment Plant

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 3,315 µg/kg

wwt

Exposure: Soil

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,0066 mg/kg dwt

Exposure: Freshwater sediment

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 0,003 mg/kg dwt

Exposure: Marine water sediment

PNEC (2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate): 55 µg/l

Exposure: Intermittent release

8.2. Exposure controls

- ▼ Control is unnecessary if the product is used as intended.

General recommendations

- ▼ Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

▼ **Exposure limits**

Occupational exposure limits have not been defined for the substances in this product.

▼ **Appropriate technical measures**

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

▼ **Hygiene measures**

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

▼ **Measures to avoid environmental exposure**

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

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

▼ **Respiratory Equipment**

If ventilation at the work place is insufficient, use a half- or full mask with an appropriate filter or an air-supplied breathing apparatus depending on the specific work situation and how long you will be using the product.

▼ **Skin protection**

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

▼ **Hand protection**

Nitrile rubber

Breakthrough time: See the manufacturer's instructions.

▼ **Eye protection**

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

▼ **9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Pale yellow
Odour	Not determined
Odour threshold (ppm)	Not determined
pH	Not determined
Viscosity (40°C)	Not determined
Density (g/cm ³)	1,08

▼ **Phase changes**

Melting point (°C)	Not determined
Boiling point (°C)	Not determined
Vapour pressure	Not determined
Decomposition temperature (°C)	Not determined
Evaporation rate (n-butylacetate = 100)	Not determined

▼ **Data on fire and explosion hazards**

Flash point (°C)	>100
Ignition (°C)	Not determined
Auto flammability (°C)	Not determined
Explosion limits (% v/v)	Not determined
Explosive properties	Not determined

▼ **Solubility**

Solubility in water	Soluble
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<p>n-octanol/water coefficient</p> <p>▼ 9.2. Other information</p> <p>Solubility in fat (g/L)</p>	<p>Not determined</p> <p>Not determined</p>
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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 "Handling and storage".

▼ 10.3. Possibility of hazardous reactions

Nothing special

▼ 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

▼ 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing 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: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 2038mg/kg

▼ Skin corrosion/irritation

Not determined

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

Not determined

▼ Reproductive toxicity

Not determined

▼ STOT-single exposure

Not determined

▼ STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

▼ Aspiration hazard

Not determined

▼ Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

▼ 12.1. Toxicity

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate

Species: Algae

Test: EC50

Duration: 72

Result: 3,8mh/l

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate

According to EC-Regulation 2015/830

Species: Daphnia
 Test: EC50
 Duration: 48
 Result: 81mg/l

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate
 Species: Fish
 Test: LC50
 Duration: 96
 Result: >100mg/l

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate
 Species: Algae
 Test: NOEC
 Duration: 72
 Result: 0,92mg/l

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate
 Species: Daphnia
 Test: NOEC
 Duration: 48
 Result: 22mg/l

Substance: 2,2-Bis,3-,2-methylaziridin-1-yl,propanoyl,oxy,methyl,butyl,3-,2-methylaziridin-1-yl,propanoate
 Species: Fish
 Test: NOEC
 Duration: 96
 Result: 100mg/l

▼ **12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
Not determined			

▼ **12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
Not determined			

12.4. Mobility in soil

No data available

▼ **12.5. Results of PBT and vPvB assessment**

This substance is not considered to meet the criteria classifying it as PBT and/or vPvB.

▼ **12.6. Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

-

▼ **Specific labelling**

Not applicable

▼ **Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

▼ **ADR/RID**

14.1. UN number	3082
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	9
14.4. Packing group	III

Notes	-
Tunnel restriction code	-
▼IMDG	
UN-no.	3082
Proper Shipping Name	-
Class	-
PG*	III
EmS	-
MP**	-
Hazardous constituent	-
▼IATA/ICAO	
UN-no.	3082
Proper Shipping Name	-
Class	-
PG*	III

14.5. Environmental hazards

-

▼14.6. Special precautions for user

The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤ 5 kg.

14.7. Transport in bulk according to Annex II of Marpol 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 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Not applicable

Seveso

Seveso III Part 1: E2

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼Full text of H-phrases as mentioned in section 3

H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H341 - Suspected of causing genetic defects.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

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Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

RLN

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

2016-09-23(4.0)

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

2016-09-23