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

1.1. Product identifier

Product form	: Mixture
Trade name	: HM1
Product code	: 387/770
Product group	: Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category	: Industrial use,Professional use
Use of the substance/mixture	: Wood preservatives Fire-retarding agent
Function or use category	: Construction materials additives

1.2.2. Uses advised against

Restrictions on use	: Any other intended applications should be discussed with the manufacturer

1.3. Details of the supplier of the safety data sheet

Manufacturer
MASID - umwelterhaltende Produkte Vertriebs GmbH
Auf der Tannenhöhe
D- 35327 Ulrichstein
T +49 (0)6645-918 868 - F +49 (0)6645-780 473

masid@masid.de - www.masid.de
Responsible person: M. Gerhard Eck

1.4. Emergency telephone number

Emergency number	: Company

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, the product does not present any particular risk, under normal conditions of use.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP)	: P102 - Keep out of reach of children.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

Other hazards not contributing to the classification	: May be dangerously slippery if spilled. May be slightly irritating to skin and eyes.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Preparation based on :
vegetable and mineral components

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove victim to fresh air. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove victim to fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Immediately rinse with plenty of water. If irritation persists, consult a doctor. Take off contaminated clothing and wash before reuse.

First-aid measures after eye contact : Rinse thoroughly and plentifully with water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to a doctor if irritation persists.

First-aid measures after ingestion : Rinse mouth out with water. Drink plenty of water. Consult a doctor/medical service. Irritation of the respiratory tract.

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

Symptoms/effects : May be slightly irritating to eyes, respiratory system and skin.

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

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : The product is not flammable.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Non combustible.

Explosion hazard : Not applicable.

Hazardous decomposition products in case of fire : Not applicable.

5.3. Advice for firefighters

Precautionary measures fire : Approach from upwind. Do not breathe gas/vapour/aerosol.

Firefighting instructions : No special requirements.

Protection during firefighting : not expected. Not combustible.

Other information : Liquid material is slippery.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid repeated or prolonged skin contact. Wear suitable protective clothing. Refer to chapter 8. Stop leak if safe to do so.

6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Reference to other sections (13).

6.3. Methods and material for containment and cleaning up

For containment : Clean up any spills as soon as possible, using an absorbent material to collect it. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

Methods for cleaning up : Absorb spillage to prevent material damage. Take up liquid spill into inert absorbent material, e.g.: dry sand/earth/vermiculite kieselguhr. Clean contaminated surfaces with an excess of water.

Other information : May be dangerously slippery if spilled.

6.4. Reference to other sections

Reference to other sections (8, 13). Information regarding safe handling, see section 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	No specific measures are required if the product is handled in accordance with the general rules of occupational hygiene and safety.
Precautions for safe handling	:	Avoid all eye and skin contact and do not breathe vapour and mist. Ensure there is adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	None under normal use.
Storage conditions	:	Store in original container.
Incompatible products	:	Strong bases. Oxidizing agent.
Incompatible materials	:	aluminium. Copper alloys. copper. Nickel (Ni). zinc.
Heat and ignition sources	:	Not combustible. No special requirements.
Storage area	:	Keep only in the original container.
Packaging materials	:	No data available.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

European Union Legislation	:	Does not contain components with substance specific occupational exposure limits.

8.2. Exposure controls

Appropriate engineering controls:

No special measures required.

Personal protective equipment:

In case of splash hazard: safety glasses. Gloves. protective clothing.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing

Eye protection:

Use splash goggles when eye contact due to splashing is possible

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided. Cotton fibres

Respiratory protection:

None under normal conditions. In order to avoid inhalation of mist/vapour, all spraying must be done wearing adequate respirator

Thermal hazard protection:

No special technical protective measures required.

Environmental exposure controls:

No specific measures are required if the product is handled in accordance with the general rules of occupational hygiene and safety.

Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	liquid.
Colour	:	Beige. clear.
Odour	:	odourless.
Odour threshold	:	not applicable, odour not perceivable
pH	:	3,3
Relative evaporation rate (butylacetate=1)	:	Not determined
Relative evaporation rate (ether=1)	:	Not determined
Melting point	:	> -10 °C
Freezing point	:	Not determined
Boiling point	:	> 100 °C
Flash point	:	Not applicable; DIN EN ISO 1523
Critical temperature	:	Ignition temperature
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not determined
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	Not determined
Vapour pressure at 50 °C	:	Not determined
Relative vapour density at 20 °C	:	Not applicable
Relative density	:	No data available
Density	:	1,1144 g/cm³ DIN 53217
Solubility	:	completely miscible. Water: Not determined Ethanol: Not determined Ether: Not determined Acetone: Not determined Organic solvent:Not determined
Log Pow	:	Not determined
Log Kow	:	Not determined
Viscosity, kinematic	:	Not determined
Viscosity, dynamic	:	Not determined
Explosive properties	:	Product is not explosive.
Oxidising properties	:	Not applicable. Fire. Inhibitor.
Explosive limits	:	Not applicable

9.2. Other information

VOC content	:	Not applicable
Bulk density	:	Not applicable
Other properties	:	If necessary, information on other physical and chemical parameters is indicated in this section.
Additional information	:	No further information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep away from : Strong bases.

10.5. Incompatible materials

Aluminium. copper. zinc. Glass. Strong bases.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 3,3
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met) pH: 3,3
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	:	Can occur: eye irritation, irritation of mucous membranes and skin irritation. Slightly irritant but not relevant for classification.
Other information	:	When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.
Ecology - air	:	The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.
Ecology - water	:	There is a high probability that the product is not acutely harmful to aquatic organisms. Not in groundwater, surfacewater or sewerage.
Acute aquatic toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	:	Not classified (Based on available data, the classification criteria are not met)
Additional information	:	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

HM1	
Log Pow	Not determined
Log Kow	Not determined
Bioaccumulative potential	This material has not been tested.

12.4. Mobility in soil

HM1	
Ecology - soil	No information available about this product.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Additional information : The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Remove waste in accordance with local and/or national regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Uncontaminted packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Additional information : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Handle uncleaned empty containers as full ones.

Ecology - waste materials : Empty containers should be thoroughly rinsed with large quantities of clean water.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content	:	Not applicable
Other information, restriction and prohibition regulations	:	No further information available. If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

15.1.2. National regulations

Users should ensure that they comply with any relevant local, provincial or national legislation.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

Report mixture CLP classification/labelling.

Section	Changed item	Change	Comments
		Modified	According to Regulation (EU) 2015/830 (REACH Annex II)

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources	:	Manufacturer/Supplier. Authoring: Quick.MSDS Sprl - Belgium info@quickmsds.de +32 (0) 479 469 465.
Training advice	:	Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	:	No further information available.

MSDS EU (REACH Annex II)_JBO

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.