

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Masava Rust Remover

Product no.

11150

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Washing and Cleaning Products (including solvent based products) (PC 35)

Roller application or brushing. Low energy spreading of e.g. coatings. Including cleaning of surfaces.

Substance can be inhaled as vapours, skin contact can occur through droplets, splashes, working with wipes and handling of treated sur-faces (PROC 10)

Other (SU 0)

Consumer uses: Private households (= general public = consumers) (SU 21)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU 22)

Wide dispersive indoor use of processing aids in open systems (ERC8a)

Wide dispersive outdoor use of processing aids in open systems (ERC8d)

Uses advised against

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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

Masava Kemi ApS
Bodoevej 12
DK-5700 Svendborg
tlf: +45 6610 9060
fax: +45 6610 9013

Contact person

Hans Graebe

E-mail

hc@masavakemi.dk

SDS date

11-03-2016

SDS Version

2.0

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 Corr. 1B; H314

Eye Dam. 1; H318

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)

Causes severe skin burns and eye damage. (H314)

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

Safety statement(s)	General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
	Prevention	Do not breathe mist/vapours/fume/spray. (P260).
	Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353).
	Storage	Store locked up. (P405).
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

orthophosphoric acid, 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol

2.3. Other hazards

Additional labelling

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Additional warnings

Tactile warning. If this product is sold retail, it must be delivered in a child-proof container.

VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	orthophosphoric acid
IDENTIFICATION NOS.:	CAS-no: 7664-38-2 EC-no: 231-633-2 Index-no: 015-011-00-6
CONTENT:	60-80%
CLP CLASSIFICATION:	Skin Corr. 1B H314
NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 REACH-no: 01-2119475104-44 Index-no: 603-096-00-8
CONTENT:	3-5%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NAME:	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol
IDENTIFICATION NOS.:	CAS-no: 95-38-5 EC-no: 202-414-9 REACH-no: 01-2119777867-13-0000
CONTENT:	1-3%
CLP CLASSIFICATION:	Acute Tox. 4, STOT RE 2, Skin. Corr. 1C, Aquatic Acute 1, Aquatic Chronic 1 H302, H314, H373, H400, H410 (M-acute = 10)

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

Other informations

ATEmix(inhale, vapour) > 20
 ATEmix(inhale, dust/mist) > 20
 ATEmix(inhale, dust/mist) > 20000
 ATEmix(dermal) > 2000
 ATEmix(oral) > 2000
 Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2,7352 - 4,1028
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 7,104 - 10,656
 N chronic (CAT 2) Sum = Sum(Ci/M(chronic))*25*0.1*10^CATi) = 6,4 - 9,6
 N acute (CAT 1) Sum = Sum(Ci/M(acute))*25) = 0,64 - 0,96

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

Not applicable

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

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin.

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 medics

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

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

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

Consider putting up waste collecting trays/basins to prevent leakage to the surroundings. 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.

Storage temperature

Room temperature 18 to 23°C

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

2-(2-butoxyethoxy)ethanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67.5 mg/m³

Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m³

orthophosphoric acid (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

DNEL / PNEC

DNEL (2-(2-butoxyethoxy)ethanol): 101,2 mg/m³ - Exposure: Inhalation - Duration: Short term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³ - Exposure: Inhalation - Duration: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 10 mg/kg - Exposure: Dermal - Duration: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 1,25 mg/kg - Exposure: Oral - Duration: Long term – Systemic effects - General population

DNEL (2-(2-butoxyethoxy)ethanol): 50,6 mg/m³ - Exposure: Inhalation - Duration: Short term – Local effects

DNEL (2-(2-butoxyethoxy)ethanol): 34 mg/m³ - Exposure: Inhalation - Duration: Long term – Local effects

PNEC (2-(2-butoxyethoxy)ethanol): 200 mg/l - Exposure: Sew age Treatment Plant

PNEC (2-(2-butoxyethoxy)ethanol): 4 mg/l - Exposure: Freshw ater sediment

PNEC (2-(2-butoxyethoxy)ethanol): 0,4 mg/l - Exposure: Marine w ater sediment

PNEC (2-(2-butoxyethoxy)ethanol): 1 mg/l - Exposure: Freshw ater

PNEC (2-(2-butoxyethoxy)ethanol): 0,4 mg/l - Exposure: Marine w ater

PNEC (2-(2-butoxyethoxy)ethanol): 0,4 mg/kg - Exposure: Soil

PNEC (2-(2-butoxyethoxy)ethanol): 3,9 mg/l - Exposure: Intermittent release

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Observe general occupational hygiene.

Exposure scenarios

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

Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

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

Use only CE marked protective equipment.

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. . : NA

Eye protection

Use safety glasses with a side shield.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm3)
Liquid	Colourless	-	0	-	1,38

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

9.2. Other information

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 oxidizing agents, and strong reductants 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-(2-heptadec-8-enyl-2-imidazo...	Rabbit	LD50	Dermal	> 2000 mg/kg
2-(2-heptadec-8-enyl-2-imidazo...	Rat	LD50	Oral	1265 mg/kg
2-(2-butoxyethoxy)ethanol	Rabbit	LD50	Dermal	2764 mg/kg

2-(2-butoxyethoxy)ethanol	Rat	LD50	Oral	2410 mg/kg
orthophosphoric acid	Rabbit	LD50	Dermal	2740 mg/kg
orthophosphoric acid	Rat	LD50	Oral	1530 mg/kg
orthophosphoric acid	Rat	LC50	Inhalation	> 840 mg/m ³ *hr

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

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

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin. 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
2-(2-heptadec-8-enyl-2-imidazo...	Fish	LC50	96 hr	0,3 mg/l
2-(2-heptadec-8-enyl-2-imidazo...	Daphnia	EC50	48 hr	0,136
2-(2-heptadec-8-enyl-2-imidazo...	Algae	EC50	72 hr	0,2989 mg/l
2-(2-butoxyethoxy)ethanol	Fish	EC50	96 hr	1350 mg/l
2-(2-butoxyethoxy)ethanol	Algae	LC50	96 hr	> 100 mg/l
2-(2-butoxyethoxy)ethanol	Daphnia	LC50	48 hr	> 100 mg/l
orthophosphoric acid	Fish	LC50	96 hr	138 mg/l
orthophosphoric acid	Daphnia	EC50	48 hr	> 100 mg/l
orthophosphoric acid	Algae	EC50	72 hr	> 100 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-(2-heptadec-8-enyl-2-imidazo...	No	CO2 Evolution Test	No data available
2-(2-butoxyethoxy)ethanol	Yes	Modified OECD Screening Test	> 70%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
2-(2-heptadec-8-enyl-2-imidazo...	No	No data available	No data available
2-(2-butoxyethoxy)ethanol	No	No data available	No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste

EWC code

Z

Specific labelling

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Contaminated packing

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

SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

14.1 – 14.4

▼ ADR/RID

14.1. UN number	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, LIQUID
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	Phosphoric acid
Tunnel restriction code	-

IMDG

UN-no.	1805
Proper Shipping Name	PHOSPHORIC ACID, LIQUID
Class	8
PG*	III
EmS	F-A:S-B
MP**	no
Hazardous constituent	Phosphoric acid

▼ IATA/ICAO

UN-no.	
Proper Shipping Name	
Class	
PG*	

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.

Demands for specific education

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Additional information

Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
EC Regulation 1272/2008 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation.

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

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

PC 35 = Washing and Cleaning Products (including solvent based products) .

PROC 10 = Roller application or brushing. Low energy spreading of e.g. coatings. Including cleaning of surfaces. Substance can be inhaled as vapours, skin contact can occur through droplets, splashes, working with wipes and handling of treated sur-faces

SU 0 = Other.

SU 21 = Consumer uses: Private households (= general public = consumers).

SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

ERC8a = Wide dispersive indoor use of processing aids in open systems.

ERC8d = Wide dispersive outdoor use of processing aids in open systems.

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

Hans Graebe

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

18-06-2015

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

11-03-2016