

SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2015-07-09

Replaces issued SDS 2013-08-19



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name

Mac 124 Prickbort

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

Identified uses

Cleaning/washing agents

1.3. Details of the supplier of the safety data sheet

Company

Macserien AB
Mossvägen 3
SE-17741 JÄRFÄLLA
Sweden

Contact person

Magnus Kämpe

Telephone

+46 8-584 304 80

E-mail

magnus@macserien.se

1.4. Emergency telephone number

In case of emergency contact toxicological information, emergency tel 112.

For non-emergency poison information, see http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification in accordance with 1272/2008

Skin Irritant (Category 2)

Irreversible Eye Effects (Category 1)

Aspiration toxicity (Category 1A)

2.2. Label elements

Label information in accordance with 1272/2008

Hazard pictograms



Signal words

Danger

Hazard statements

H304

May be fatal if swallowed and enters airways

H315

Causes skin irritation

H318

Causes serious eye damage

Precautionary statements

P102

Keep out of reach of children

P280

Wear protective gloves and face protection

P301+P310

IF SWALLOWED: Immediately call POISON CENTER

P302+P352

IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338

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

P310

Immediately call a POISON CENTER

P331

Do NOT induce vomiting

P405 Store locked up
P501 Dispose of contents and container to authorised waste disposal facility

2.3. Other hazards

Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is composed of a homogeneous mixture of liquids.

3.2. Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT		
CAS No 64742-47-8 EC No 265-149-8 Index No 649-422-00-2	Asp Tox 1; H304	60 - 100%
2-BUTOXYETHANOL		
CAS No 111-76-2 EC No 203-905-0 Index No 603-014-00-0	Acute Tox <i>4dermal</i> , Acute Tox <i>4oral</i> , Acute Tox <i>4vapour</i> , Skin Irrit 2, Eye Irrit 2; H312, H302, H332, H315, H319	5 - 10%
ALCOHOL ETHOXYLATE		
CAS No 160875-66-1	Skin Irrit 2, Eye Dam 1; H315, H318	5 - 15%

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b (EC) No 648/2004:

> 30% aliphatic hydrocarbons,
5-15% non-ionic surfactants.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Generally

Allow the injured person to rest in a warm place which has fresh air. Flush the nose, mouth and throat with water. Seek medical attention.

Put the person in the three-quarters prone recovery position if he or she is unconscious or groggy.

Never leave a injured person alone. Their condition may rapidly worsen, sometimes several hours after the poisoning.

Upon breathing in

Let the injured person rest in a warm place with fresh air or oxygen tank, and arrange to have them transported immediately to a hospital.

Upon contact with the eyes

Immediately rinse with lukewarm water 15 - 20 minutes with eyes wide open; Transport the injured person to the hospital immediately.

Remove solid particles.

Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Remove contaminated clothes.

Upon ingestion

First rinse the mouth thoroughly with a lot of water and SPIT OUT the water. Then drink at least 1/2 liter of water and call a doctor/physician. Do NOT induce vomiting.

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

Information on symptoms are ambiguous or missing for this product.

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

Not relevant.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Recommended extinguishing agents

All normal extinguishing agents may be used.

Unsuitable extinguishing agents

Among common extinguishing agents there are none that are overtly unsuitable.

5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Chemical protection suits should be worn for all salvage and decontamination work.

Gas mask with an A type filter (brown), or a dust filter IIb (P2), may be required when decontaminating spillage.

Do not allow the product to flow into the sewer; if this should occur however, contact your local sewer service immediately.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

6.2. Environmental precautions

Avoid discharge into soil, water or air.

Avoid discharge into sewers.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

Always contact the fire department when accidental spillage of this product occurs. Show this safety data sheet.

6.3. Methods and material for containment and cleaning up

Clean-up of repeated spillages, or larger spillages of this product, should be executed by professional decontamination workers.

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitation works. Present this safety data sheet.

6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

When working with dangerous substances a fume cupboard ought to be used, or else utilise a space which is well ventilated.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is stored.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Store in a locked location.

7.2. Conditions for safe storage, including any incompatibilities

Do not store above normal room temperature.

Handle in a premises which is well ventilated.

Store in a well-ventilated area, not above eye-level.

An evacuation plan should be available and evacuation routes must not be blocked.

Emergency showers and eye-rinsing facilities must be available at the workplace.

Store only in the original package.

7.3. Specific end uses

Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National limit values, United Kingdom

2-BUTOXYETHANOL

Time-weighted-average exposure limit (TWA) 25 ppm / 123 mg/m³ Short term exposure limit (STEL) 50 ppm / 246 mg/m³

Other ingredients (cf. Section 3) have no occupational exposure limit values.

8.2. Exposure controls

In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

Use protective glasses, safety goggles, or a visor.

Gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here are recommended.



Choose a mechanical wear strength in line with the nature of the work in accordance to this pictogram with four digits that indicate resistance against abrasion, cutting effects, tear and puncture, where 1 is the lowest and 4 or 5 is the best.

Protect all exposed skin from coming into contact with the product.

A breathing mask of the A filter (brown) type, or a IIB (P2) dust filter may be required.

Use protective gloves made of neoprene or nitrile (EN 374).

For limitation of environmental exposure, see Section 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: colourless
b) Odour	Odourless or almost odourless
c) Odour threshold	Not applicable
d) pH	Ca 7
e) Melting point/freezing point	> -15 °C
f) Initial boiling point and boiling range	Not applicable
g) Flash point	> 60°C
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	Not applicable
l) Vapour density	Not applicable
m) Relative density	0.8 kg/L
n) Solubility	Not applicable
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	Not applicable
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

9.2. Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Not indicated

10.4. Conditions to avoid

Not indicated

10.5. Incompatible materials

Avoid contact with oxidizers.

10.6. Hazardous decomposition products

Not indicated

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General or unspecific toxicity

Note that the product is hazardous to health.

Harmfulness

The product is a health hazard.

Repeated dose toxicity

Prolonged exposure to the substance is dangerous.

Sensibilisation

Eczema (atopical or unidentified) may occur.

Synergism and antagonism

Enhances the risk of allergy for other substances.

Effect on judgement and other psychological effects

In high doses, influence on discernment or other mental states cannot be ruled out.

Effect on human microflora

Harmful effects on human micro-flora can not be ruled out.

Relevant toxicological properties

2-BUTOXYETHANOL

LD50 rabbit (Dermally) 24h = 220 mg/kg

LC50 rat (Inhalation) 4h = 2.211 mg/L

LD50 rat (Orally) 24h = 470 mg/kg

LC50 rat (Inhalation) 7h = 700 ppmV

ALCOHOL ETHOXYLATE

LD50 rat (Orally) 24h > 2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

2-BUTOXYETHANOL

LC50 fathead minnow (*Pimephales promelas*) 96h = 1900 mg/L

LC50 Ide (*Leuciscus idus*) 96h = 1600 mg/L

LC50 Bluegill (*Lepomis macrochirus*) 48h = 820 mg/L

LC50 goldfish (*Carassius auratus*) 96h = 1700 mg/L

ALCOHOL ETHOXYLATE

LC50 Freshwater water flea (*Daphnia magna*) 48h 1 - 10 mg/L

LC50 Fish 96h 1 - 10 mg/L

IC50 Algae 72h 1 - 10 mg/L

The product is classified as being hazardous to health, or contains a substance which is hazardous to health. Harmful impact on animals, plants and micro-organisms in the local environment cannot be ruled out.

12.2. Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

12.3. Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

12.4. Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6. Other adverse effects

Not indicated

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling for the product

The product is toxic or hazardous to health and any waste from it should therefore be considered dangerous, if it is not treated in order to eliminate this risk.

Also take local regulations for dealing with waste into account.

Recycling of the product

Small quantities are not normally recycled. In the case of larger quantities, contact the distributor.

Transportation of waste

Waste class J(1) - Substances classified as harmful or irritating.

SECTION 14: TRANSPORT INFORMATION

This product is only supposed to be transported by road or railway and just the transport regulations ADR/RID thus apply. If other means of transport are to be used, contact the publisher of this safety data sheet.

14.1. UN number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Not applicable.

15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: OTHER INFORMATION

16a. Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions

2013-08-19 Revisions of this document has, where not otherwise stated, been caused by changes in the regulations

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Asp Tox 1	Aspiration toxicity (Category 1)
<i>No phys haz</i>	Non-assigned physical hazard
Acute Tox 4 <i>dermal</i>	Acute toxicity (Category 4 skin)
Acute Tox 4 <i>oral</i>	Acute toxicity (Category 4 oral)
Acute Tox 4 <i>vapour</i>	Acute toxicity (Category 4 vapours)
Skin Irrit 2	Skin Irritant (Category 2)
Eye Irrit 2	Irritates eyes (Category 2)
<i>No environmental hazard</i>	Not classified as being environmentally hazardous
Eye Dam 1	Irreversible Eye Effects (Category 1)

Comprehensive definition of the hazards mentioned in Section 2

Skin Irrit 2

One or more criteria 1-3 for irritation of skin is applicable

Eye Dam 1

If, when applied to the eye of an animal, a substance produces at least in one animal effects on the cornea, iris or conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days and/or at least in 2 of 3 tested animals, a positive response of:

- corneal opacity ≥ 3 and/or
- iritis $> 1,5$

calculated as the mean scores following grading at 24, 48 and 72 hours after application of the test material

Asp Tox 1A

A mixture which contains a total of 10 % or more of a substance or substances classified in Category 1, and has a kinematic viscosity of 20.5 mm²/s or less, measured at 40 °C, shall be classified in Category 1

Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2015-07-10.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

453/2010 COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1272/2008 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

89/391 COUNCIL DIRECTIVE (89/391/EEC) of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the

determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

16f. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

- H304 May be fatal if swallowed and enters airways
- H312 Harmful in contact with skin
- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H318 Causes serious eye damage

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Editorial information

This safety data sheet has been generated by the program KemRisk®, KemRisk Sweden AB, Teknikringen 10, SE-583 30 Linköping, Sweden.