

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 2015-09-16

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

1.1. Product identifier

Trade name

Marifix Lock Master T70 permanent bultlåsning

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

Identified uses

Threadlocker

1.3. Details of the supplier of the safety data sheet

Company

Marifix System AB
Industrigatan 33
SE-31234 LAHOLM
Sweden

Telephone

+46 43 079 133

E-mail

info@marifix.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)

May cause an allergic skin reaction (Category 1)

Specific organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)

Harmful to aquatic life with long-lasting effects (Category Cron 3)

2.2. Label elements

Label information in accordance with 1272/2008

Hazard pictograms



Signal words

Danger

Hazard statements

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H318

Causes serious eye damage

H335

May cause respiratory irritation

H412

Harmful to aquatic life with long lasting effects

Contains 2-HYDROXYPROPYL METHACRYLATE; 1-ACETYL-2-PHENYLHYDRAZINE

Precautionary statements

P102

Keep out of reach of children

P280

Wear protective gloves and eye protection

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

P363

Wash contaminated clothing before reuse

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 a hydrous solution in solid porous material.

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
2-HYDROXYPROPYL METHACRYLATE		
CAS No 923-26-2 EC No 213-090-3 Index No 607-125-00-5	Eye Irrit 2, Skin Sens 1; H319, H317	2.5 - 10%
CUMENE HYDROPEROXIDE		
CAS No 80-15-9 EC No 201-254-7 Index No 617-002-00-8	Org Perox EF (<i>E</i>), Acute Tox 4 <i>dermal</i> , Acute Tox 4 <i>oral</i> , Acute Tox 3 <i>vapour</i> , Skin Corr 1B, STOT RE 2, Aquatic Chronic 2; H242, H312, H302, H331, H314, H373, H411	1 - 3%
ACRYLIC ACID		
CAS No 79-10-7 EC No 201-177-9 Index No 607-061-00-8	Flam Liq 3, Acute Tox 4 <i>dermal</i> , Acute Tox 4 <i>oral</i> , Acute Tox 4 <i>vapour</i> , Skin Corr 1A, STOT SE 3 <i>resp</i> , Aquatic Acute 1; H226, H312, H302, H332, H314, H335, H400	0.5 - 2.5%
1-ACETYL-2-PHENYLHYDRAZINE		
CAS No 114-83-0 EC No 204-055-3	STOT SE 3 <i>resp</i> , Eye Irrit 2, Skin Irrit 2, Skin Sens 1, Acute Tox 3 <i>oral</i> ; H335, H319, H315, H317, H301	0.1 - 0.9%
N,N-DIMETHYL-p-TOLUIDINE		
CAS No 99-97-8 EC No 202-805-4 Index No 612-056-00-9	Acute Tox 3 <i>dermal</i> , Acute Tox 3 <i>dust</i> , Acute Tox 3 <i>oral</i> , STOT RE 2, Aquatic Chronic 3; H311, H331, H301, H373, H412	0.1 - 0.9%
CUMENE		
CAS No 98-82-8 EC No 202-704-5 Index No 601-024-00-X	Aquatic Chronic 2, STOT SE 3 <i>resp</i> , Asp Tox 1, Flam Liq 3; H411, H335, H304, H226	0.1 - 0.5%

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.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****Generally**

Immediately call a POISON CENTER or doctor/physician.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

Upon breathing in

Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical advice.

Upon contact with the eyes

Rinse the eye for several minutes with lukewarm water. Contact a physician.

Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

Skin irritation may occur. Splashes in eyes may cause burning pain. Risk of permanent eye damage. Allergic reactions. Inhalation may cause airway irritation.

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

Symptomatic treatment.

When contacting a physician, take this SDS with you.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguish with light foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning.

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.

Cool closed containers that were exposed to fire with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

Ensure good ventilation.

Avoid inhalation and exposure to skin and eyes.

6.2. Environmental precautions

Avoid discharge into soil, water or sewers.

6.3. Methods and material for containment and cleaning up

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

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

Read and follow the manufacturer's instructions.

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

Store tightly, in original packaging.

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.

Wash your hands after using the product.

Open fire, hot items, sparks or other ignition sources must not be present in the environment used for handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry area at temperatures not below 25°C.

Handle in premises which have modern ventilation standards.

Store in a well-ventilated space.

Eye-rinsing facilities shall be available at the workplace.

Do not store in direct sunlight.

7.3. Specific end uses

See identified uses in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National limit values, United Kingdom

All ingredients (cf. Section 3) lack 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.

Use protective gloves of butyl rubber, Viton or fluorine rubber, or get advice from an occupational medical expert about alternative materials. Show this safety data sheet.

Use proper protective breathing equipment in case of insufficient ventilation.

A breathing mask of the A filter (brown) type, may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: blue
b) Odour	Sweety
c) Odour threshold	Not applicable
d) pH	3-5
e) Melting point/freezing point	Not applicable
f) Initial boiling point and boiling range	Not applicable
g) Flash point	150 °C
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	0.01kPa
l) Vapour density	Not applicable
m) Relative density	1.1 kg/L
n) Solubility	Solubility in water: Insoluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	~500 cPs
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

Protect from heat and direct sunlight.

10.5. Incompatible materials

Avoid contact with acids, bases and oxidizing agents.

Avoid contact with radical forming substances, peroxides and reactive metals.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and harmful and irritating substances.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General or unspecific toxicity

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

note that the product is or contains an allergenic substance.

Ingestion of larger quantities of product may cause discomfort or it may impact the general health condition.

Acute effects

Not classified as an acutely toxic substance.

Repeated dose toxicity

No information is available.

Carcinogenicity

No information is available.

CMR effects

No information is available.

Sensibilisation

The product contain allergenic substances.

May cause sensitisation by skin contact.

Corrosive and irritating effects

This product may irritate eyes, skin, mucous membranes and respiratory tract.

Contact with the eyes may cause irreversible eye damage.

Synergism and antagonism

No information is available.

Effect on judgement and other psychological effects

No information is available.

Effect on human microflora

No information is available.

Relevant toxicological properties

CUMENE HYDROPEROXIDE

LC50 rat (Inhalation) 4h = 220 ppm inhalation

LD50 rat (Orally) 24h = 382 mg/kg oral

ACRYLIC ACID

LD50 rabbit (Dermally) 24h = 290 mg/kg

LC50 rat (Inhalation) 4h = 3.6 mg/L

LD50 rat (Orally) 24h = 250 mg/kg

N,N-DIMETHYL-p-TOLUIDINE

LC50 rat (Inhalation) 4h = 1400 mg/m³

LD50 rat (Orally) 24h = 1650 mg/kg

CUMENE

LD50 rabbit (Dermally) 24h = 12300 mg/kg

LD50 rat (Orally) 24h = 1400 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

CUMENE HYDROPEROXIDE

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h = 3.9 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 24h = 7 mg/L

Environmentally hazardous substance: Prevent discharge to soil, water and air.

12.2. Persistence and degradability

There is no information regarding persistence or degradability.

12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6. Other adverse effects

The product may cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste handling for the product

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Observe local regulations.

Avoid discharge into sewers.

Recycling of the product

This product is not normally recycled. Empty packaging should be disposed of at a recycling centre where practically possible.

The manufacturer is affiliated to REPA.

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

This is the first version.

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

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

<i>Combust Liq</i>	Combustible liquids with flash points > 93 C
Eye Irrit 2	Irritates eyes (Category 2)
Skin Sens 1	May cause an allergic skin reaction (Category 1)

Org Perox EF (<i>E</i>)	Organic peroxide (Category E)
Acute Tox 4 <i>dermal</i>	Acute toxicity (Category 4 skin)
Acute Tox 4 <i>oral</i>	Acute toxicity (Category 4 oral)
Acute Tox 3 <i>vapour</i>	Acute toxicity (Category 3 vapour)
Skin Corr 1B	Corrosive (Category 1B)
STOT RE 2	STOT RE 2; Specific target organ toxicity - repeated exposure (Category 2)
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects (Category Cron 2)
Flam Liq 3	Flammable liquids (Category 3)
Acute Tox 4 <i>vapour</i>	Acute toxicity (Category 4 vapours)
Skin Corr 1A	Corrosive (Category 1A)
STOT SE 3 <i>resp</i>	Specific organ toxicity - single exposure; May cause respiratory irritation (Category 3 resp)
Aquatic Acute 1	Very toxic to aquatic life (Category Acute 1)
Skin Irrit 2	Skin Irritant (Category 2)
<i>No phys haz</i>	Non-assigned physical hazard
Acute Tox 3 <i>oral</i>	Acute toxicity (Category 3 oral)
Acute Tox 3 <i>dermal</i>	Acute toxicity (Category 3 skin)
Acute Tox 3 <i>dust</i>	Acute toxicity (Category 3 dust)
Aquatic Chronic 3	Harmful to aquatic life with long-lasting effects (Category Cron 3)
Asp Tox 1	Aspiration toxicity (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

Skin Sens 1

Substances shall be classified as skin sensitisers (Category 1) in accordance with the criteria given below: (i) if there is evidence in humans that the substance can induce sensitisation by contact with the skin in a significant number of people, or (ii) where there are positive results from an appropriate animal test. The concentration limit 0.1% for elicitation is used for the application of the special labeling requirements of 1272/2008 Title 2.8 to protect sensitised individuals

STOT SE 3*resp*

Transient target organ effects: Respiratory tract irritation. These are target organ effects for which a substance does not meet the criteria to be classified in Categories 1 or 2. These are effects which adversely alter human function for a short duration after exposure and from which humans may recover in a reasonable period without leaving significant alteration of structure or function

Aquatic Chronic 3

Chronic (long-term) aquatic hazard. 96 hr LC50 (for fish) 10-100 mg/l and/or

48 hr EC50 (for crustacea) 10-100 mg/l and/or

72 or 96 hr ErC50 (for algae or other aquatic plants) 10-100 mg/l and the substance is not rapidly degradable and/or the experimentally determined BCF ≥ 500 (or, if absent, the log Kow ≥ 4) unless the chronic toxicity NOECs are > 1 mg/l

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 2015-09-18.

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.

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

Full texts for hazard statements mentioned in section 3

- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H242 Heating may cause a fire
- H312 Harmful in contact with skin
- H302 Harmful if swallowed
- H331 Toxic if inhaled
- H314 Causes severe skin burns and eye damage
- H373 May cause organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects
- H226 Flammable liquid and vapour
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life
- H315 Causes skin irritation
- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H412 Harmful to aquatic life with long lasting effects
- H304 May be fatal if swallowed and enters airways

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

Warning for misuse

This product can cause severe injuries if used improperly. Read and follow carefully the instructions in this safety sheet and other appropriate risk information. At professional use the employer is responsible for the staff being well aware of the risks.

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.