

Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.04.2007

Reviewed on 21.03.2007

1 Identification of the substance/preparation and of the company/undertaking**Product details****Trade name** Eurolan 3 RF**Safety data sheet no.:** 49PD10348/14**Application of the substance / the preparation**

Construction chemicals

Binder

Manufacturer/Supplier:

maxit France s.a.s

4 rue de Mulhouse

Boîte Postale 27

F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80

FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients**Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

10043-52-4	calcium chloride	 Xi; R 36	10 - 20%
77-92-9	citric acid	 Xi; R 36	2 - 5%
1336-21-6	ammonia, aqueous solution	 C,  N; R 34-50	0,1 - 1%

Additional information For the wording of the listed risk phrases refer to section 16.**3 Hazards identification****Hazard description:**

C Corrosive

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 34 Causes burns.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures**General information** Immediately remove any clothing soiled by the product.**After inhalation** Supply fresh air; consult doctor in case of complaints.**After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Rinse liquid should be tempered (20-30°C).

After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

Information for doctor None**5 Fire fighting measures****Suitable extinguishing agents**

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Carbon monoxide (CO)

Protective equipment: Use methods suitable to surrounding conditions.**6 Accidental release measures****Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.**Measures for environmental protection:**

The product must not get into watercourses or into the soil.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: See Section 13 for disposal information.**7 Handling and storage****Handling****Information for safe handling:** Store in cool, dry place in tightly closed receptacles.**Information about fire - and explosion protection:** No special measures required.**Storage****Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Store in a cool location.

Information about storage in one common storage facility: Store away from foodstuffs.**Further information about storage conditions:**

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

Recommended storage temperature: 5-30°C.**8 Exposure controls and personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

Personal protective equipment:**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

Respiratory protection: Not required.

Protection of hands:

Acid resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

9 Physical and chemical properties:**General Information**

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100°C (212°F) (DIN)

Flash point: Not applicable

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20°C (68°F): 1,2 g/cm³ (DIN 51757)

Bulk density: Not applicable.

Solubility in / Miscibility with

Water: Fully miscible

pH-value at 20°C (68°F): 1,0 (DIN 19261)

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Viscosity:
dynamic: Not determined.
kinematic: Not determined.

Solvent separation test: Not applicable.

Solvent content:
Organic solvents: 0,0 %

Additional information: None.

10 Stability and reactivity

Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions: Reacts with strong acids and oxidizing agents

Dangerous decomposition products: Hydrogen chloride (HCl)

11 Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Components	Type	Value	Species
77-92-9 citric acid			
Oral	LD50	11700 mg/kg (rat)	

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Corrosive

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12 Ecological information:

Information about elimination (persistence and degradability):

Other information: The product is biodegradable.

Ecotoxicological effects:

Aquatic toxicity:

Type of test	Effective concentration	Method	Assessment
77-92-9 citric acid			
EC50/72h	120 mg/l	(Daphnia magna (großer Wasserfloh))	
LC0/96h	550 mg/l	(Leuciscus idus (Goldorfe))	

Other information:

77-92-9 citric acid

BSB (5)	625 mg O2/g (-)
CSB	750 mg O2/g (-)

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General notes:

Do not allow product to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations**Product:****Recommendation**

After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.

European waste catalogue

Possible waste code. The concrete waste code depends of the source of the waste.

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

14 Transport information**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class: 8 (C 3) Corrosive substances.

Danger code (Kemler): 80

UN-Number: 3265

Packaging group: III

Hazard label 8

Description of goods: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (citric acid)

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 8

UN Number: 3265

Label 8

Packaging group: III

EMS Number: F-A,S-B

Marine pollutant: No

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Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (citric acid)**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** 8**UN/ID Number:** 3265**Label** 8**Packaging group:** III**Proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (citric acid)**15 Regulatory information****Labelling according to EU guidelines:**

The product has been marked in accordance with EU Directives / respective national laws.

Observe the general safety regulations when handling chemicals.

Code letter and hazard designation of product:

C Corrosive

Risk phrases:

34 Causes burns.

Safety phrases:

20 When using do not eat or drink.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

34 Causes burns.

36 Irritating to eyes.

50 Very toxic to aquatic organisms.

Department issuing MSDS: Product safety department**Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93*** Data compared to the previous version altered.**