

**MDC-LP Cleaner EL**Revision: 06.12.2005  
Printing date: 06.12.2005**1. Identification of the substance/preparation and of the company/undertaking****Trade name:**

MDC-LP Cleaner EL

**Intended use:**

Alkaline Cleaner for Industrial Application

**Company name:**MDC Max Daetwyler AG  
Flugplatz  
CH-3368 Bleienbach  
Phone: ++41 (0) 62 919 37 37  
Fax-no.: ++41 (0) 62 919 34 00**Emergency information:**

Swiss Toxicological Information Centre: ++41 (0)44 251 51 51

**2. Composition / information on ingredients****Declaration of ingredients according to 91/155/EC:**

Hazardous components CAS-No.	EINECS	%	Classification
Sodium metasilicate*5 H2O 10213-79-3		20 - 40	
Sodium metasilicate 6834-92-0	229-912-9	20 - 30	C - Corrosive; R34
Sodium carbonate 497-19-8	207-838-8	5 - 10	Xi - Irritant; R36
Sodium hydroxide 1310-73-2	215-185-5	30 - 50	

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

The preparation does not contain any ingredients to be labelled according to this regulation.

**3. Hazards identification**The product is classified as hazardous within the meaning of the valid (EU) preparation guideline.  
R35 Causes severe burns.  
R37 Irritating to respiratory system.**4. First-aid measures****Inhalation:**

Move to fresh air, administer oxygen, keep warm; hospitalise.

**Skin contact:**

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

**Eye contact:**

Immediately flush eyes with water (for 10 minutes), put on a bandage with sterile gauze, see an oculist.

**Ingestion:**

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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**5. Fire-fighting measures**

**Combustion behaviour:**

Non-combustible. In case of fire toxic gases can be released.

**Suitable extinguishing media:**

Not applicable

**Extinguishing media which must not be used for safety reasons:**

Not applicable

**Special protection equipment for firefighters:**

Wear protective equipment.

**Additional information:**

Cool endangered containers with water spray jet.

**6. Accidental release measures**

**Personal precautions:**

Avoid contact with skin and eyes.  
 Avoid dust formation.

**Environmental precautions:**

Do not empty into drains / surface water / ground water.

**Clean-up methods:**

Remove mechanically.  
 Wash away residue with plenty of water.

**7. Handling and storage**

**Handling:**

Avoid dust formation, vacuum.  
 When diluting, always stir slowly the product into standing water.

**Storage:**

Store in a dry place.  
 Keep container tightly sealed.  
 Do not store together with strong acids.

**8. Exposure controls / personal protection**

**Components with specific control parameters for workplace:**

Valid for  
 Switzerland  
 Basis  
 SUVA Publication

Ingredient	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
Sodium hydroxide; caustic soda 1310-73-2		2	Time Weighted Averag (TWA):		
		2	Short Term Exposure Limit (STEL).		

**Engineering controls:**

Thorough dedusting.

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Dust mask when dust is generated

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Goggles which can be tightly sealed.

**General protection and hygiene measures:**

Keep away from food, beverages and animal feed.

**9. Physical and chemical properties**

Appearance	solid material powder white
Odor:	no valuation
pH-value (20 °C (68 °F); Conc.: 10 g/l; Solvent:Demineralised water))	13

**10. Stability and reactivity****Conditions to avoid:**

No decomposition if used according to specifications.

**Materials to avoid:**Reaction with acids: production of heat and carbon dioxide.  
Reacts with water: generation of heat.**Hazardous decomposition products:**

None if used for intended purpose.

**11. Toxicological information****Oral toxicity:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**Inhalative toxicity:**

Irritating to respiratory system.

**Dermal toxicity:**

The product causes corrosion on skin and mucous membranes.

**Eye irritation:**

Very corrosive

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## 12. Ecological information

### Persistence/Degradability

Degradation of surfactants

Due to the ingredients, the product is not subject to the EU Detergent Regulation (EC/648/2004)

### General ecological information:

Inorganic product: Decomposition not affected.

### Other remarks:

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 ... 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

## 13. Disposal considerations

### Product

### Disposal methods:

Waste disposal with the approval of the responsible local authority.

### Waste code(EWC ):

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

EWC/EAK 070608

## 14. Transport information

### Road transport ADR:

Class:	8
Packaging group:	II
Classification code:	C6
Hazard ident. number:	80
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

### Railroad transport RID:

Class:	8
Packaging group:	II
Classification code:	C6
Hazard ident. number:	80
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

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### Inland water transport ADN:

Class:	8
Packaging group:	II
Classification code:	C6
Hazard ident. number:	80
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

### Marine transport IMDG:

Class:	8
Packaging group:	II
UN no.:	3262
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

### Air transport IATA:

Class:	8
Packaging group:	II
Packaging instructions (passenger)	814
Packaging instructions (cargo)	816
Packaging instructions (cargo) 816 UN no.:	3262
Label:	8
Proper shipping name:	Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide,Sodium metasilicate)

## 15. Regulations - classification and identification

### Indication of danger:

C - Corrosive



### Contains

Na-hydroxide,  
Na-metasilicate

### Risk phrases:

R35 Causes severe burns.  
R37 Irritating to respiratory system.

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**Safety phrases:**

- S22 Do not breathe dust.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**VOC-portion:**

RiLi 1999/13/EC	0,00 %
VOCV 814.018 VOC regulation CH	0 %

**16. Other information**

Full text of the R-phrases indicated by codes in this safety data sheet. The labeling of the product is indicated in Section 15.

- R34 Causes burns.
- R35 Causes severe burns.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.