

Material safety data sheet according to 91/155/EEC

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1. Substance, preparation and company data

Name of the preparation: **MDC LP BRIGHTENER**
MDC article No.: 165789
Details of the manufacturer and supplier: MDC Max Daetwyler AG, CH-3368 Bleienbach
Information Department: Galvanic, +41 62 919 37 37
Telephone number in case of emergency: Toxicological Information Centre Zurich
Telephone +41 1 251 51 51

2. Composition / information on ingredients

Hazardous ingredients:

CAS-No.	Name	(%-Wt)	Classification
	Disulfurous Acid	0 - 5	Xn
	Derivate of nicotinic acid	10 - 15	

3. Special hazards information for man and environment

Hazard designation:



Xn Unhealthy

R-phrases:

R 31 In case of contact with acids formation of toxic gas.

4. First-aid- measures

In case of skin contact: In case of contact with skin wash off immediately with plenty of water. Remove contaminated clothing immediately, even underwear and shoes.

In case of eye contact: In case of contact with eyes rinse with plenty of lukewarm water carefully and seek for medical treatment.

In case of ingestion: Summon a doctor immediately. Rinse out mouth and give plenty of water to drink.

5. Fire-fighting measures

Suitable extinguishing material

Water
Dry powder
Carbon dioxide

6. Accidental release measures

Personnel Safety Measures: Wear protective clothing and gear; see paragraph 8.

Methods for cleaning up/taking up: Take up with absorbent material (e.g. sand, silicate, acid binder, general-purpose binder, sawdust). Flush away residues with water. After taking up the material dispose according to regulation

7. Handling and storage

Requirements for storage rooms and vessels: Use polyethylene containers.

Further information on storage conditions: Do not store product over solid matter. Product from frost.

8. Exposure controls and personal protection

Hand Protection: Gloves made of Neoprene, PVC or rubber.

Eye Protection: Safety goggles with side protection.

Hygiene measures: Beware of food, drinks and animal food. Wash hands before breaks and after work.

9. Physical and chemical properties

Form: liquid
Colour: brown
Odour: irritant

Data relevant for safety

	Value	Temperature	At	Method	Remark
pH value in delivery state	6.3	20° C			
Density (g/m ³)	1.073	20° C			

10. Stability and reactivity

Hazardous decomposition products:

Sulphur dioxide
Sulphurous oxides (Sox)

Thermal decomposition:

Remark No decomposition if suitable use.

11. Toxicological information

Acute toxicity / Irritability / Sensitisation

	Value/Validation	Species	Method	Remark
LD ₅₀ acute oral	1510 mg/kg	rat		
LD ₅₀ acute dermal	5000 mg/kg	rabbit		

Additional Information: Based on our experience the product does not cause any health threatening effects.

12. Ecological information

Behaviour in sewage plant: When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological information:

	Value	Method	Remark
COD			The product creates a lightly elevated COD-content

General Remarks: General regulation Biodegradable, may be soluted degraded in biological sewage treatment plants. Waste water could have a light organic odour.

13. Disposal considerations

Recommendations for the product: Can't be disposed with household refuse.

14. Transport information

Land transport (ADR/RID/GGVS/GGVE)

Remarks: Not classified.

Marine transport IMDG/GGV See

Remarks: Not classified

Air transport ICAO/IATA

Remarks: Not classified



15. Regulatory information

Remarks for classifications: According to EG guidelines this product has to be labeled.

Hazard designation:



Xn Unhealthy

R-phrases:

R 31 In case of contact with acids formation of toxic gas.

S-phrases:

S 7 Keep container tightly closed.

National Regulations: Swiss regulations

Classification according to Vbf:

Water hazard class: 1 (self-assessment)

Registered at the Swiss Federal Office for Health (BAG):

Poison class: 3

BAG T Nr.: 611463

16. Other information

Further information: This information is based on the experience we have as per today referring to the product in its condition as delivered. The information does not stipulate a warranty of product characteristics. We refuse any responsibility for product applications different than described in our directives and guidelines.
