

Safety data sheet

Page: 1/17

(now part of BASF Group) safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 07.09.2021

Date previous version: 16.06.2020

Product: **MCT 201**

Version: 3.0

Previous version: 2.0

(ID no. 30712996/SDS_GEN_CH/EN)

Date of print 03.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

MCT 201

UFI: VS2D-A2P1-600A-YDFW

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

Recommended use: Treatment of metal surfaces.

Not recommended use: Uses other than recommended

1.3. Details of the supplier of the safety data sheet

Firma:

ISO OERLIKON AG

Hauptstrasse 23

5737 Menziken

Switzerland

41(0)62 771 83 05

info@iso-oerlikon.ch

1.4. Emergency telephone number

Tox Info Suisse (STIZ): Tel. 145

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Acute Tox. 3 (dermal)	H311 Toxic in contact with skin.
Met. Corr. 1	H290 May be corrosive to metals.
Skin Corr./Irrit. 1	H314 Causes severe skin burns and eye damage.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P264	Wash contaminated body parts thoroughly after handling.
P234	Keep only in original packaging.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust or mist.

Precautionary Statements (Response):

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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P390	Absorb spillage to prevent material damage.
P363	Wash contaminated clothing before reuse.
P330	Rinse mouth
P310	Immediately call a POISON CENTER or physician.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Precautionary Statements (Storage):

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Hydrogen fluoride

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Classified as 'corrosive' due to pH value. (Regulation (EC) No. 1272/2008)

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Water, inorganic salts

Hazardous ingredients (GHS)

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according to Regulation (EC) No. 1272/2008

Aluminium fluorideContent (W/W): $\geq 5\%$ - $< 7\%$

CAS Number: 7784-18-1

EC-Number: 232-051-1

Substance with EU occupational exposure limit

Hydrogen fluorideContent (W/W): $\geq 0,5\%$ - $< 1\%$

CAS Number: 7664-39-3

EC-Number: 231-634-8

Acute Tox. 2 (Inhalation - gas)

Acute Tox. 2 (oral)

Acute Tox. 1 (dermal)

Skin Corr./Irrit. 1A

Eye Dam./Irrit. 1

H310, H330, H300, H314

Specific concentration limit:Skin Corr./Irrit. 1B: $1 - < 7\%$ Eye Dam./Irrit. 2: $0,1 - < 1\%$ Skin Corr./Irrit. 1A: $\geq 7\%$ **Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(dodecylimino)di-2,1-ethanediyl]bis(.omega.-hydroxy)-**Content (W/W): $\geq 0,1\%$ - $< 0,2\%$

CAS Number: 31017-83-1

Acute Tox. 4 (oral)

Eye Dam./Irrit. 1

Aquatic Acute 1

Aquatic Chronic 3

H318, H302, H412, H400

Aluminium nitrateContent (W/W): $\geq 2,5\%$ - $< 3\%$

CAS Number: 13473-90-0

EC-Number: 236-751-8

Eye Dam./Irrit. 1

H318

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

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If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required. Apply calcium gluconate gel.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Keep at rest. Immediately rinse mouth and then drink milk or a magnesium hydroxide/calcium carbonate suspension, do not induce vomiting, seek medical attention.

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

Symptoms: skin corrosion, Symptoms of poisoning may only appear after several hours., Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: Administration of calcium gluconate.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: fluorinated compounds

Advice: Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire

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extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP)

Suitable materials for containers: rubberized

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Store only in corrosion proof containers. Close containers carefully once

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opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. avoid contact with metals Store protected against freezing.

Storage stability:

Storage temperature: 0 - 40 °C

Protect from temperatures below: 0 °C

Protect from temperatures above: 40 °C

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

7784-18-1: Aluminium fluoride

Skin Designation (MAC (CH)), Inhalable fraction

Measured as: fluorine (F)

The substance can be absorbed through the skin.

TWA value 1 mg/m³ (MAC (CH)), Inhalable fraction

Measured as: fluorine (F)

STEL value 4 mg/m³ (MAC (CH)), Inhalable fraction

Measured as: fluorine (F)

(MAC (CH)), Inhalable fraction

Measured as: fluorine (F)

There is no reason to fear a risk of damage to the developing embryo or fetus when the occupational exposure limits or biological exposure limit (BEL) are adhered to.

7664-39-3: Hydrogen fluoride

TWA value 0,83 mg/m³ ; 1 ppm (MAC (CH))

STEL value 1,66 mg/m³ ; 2 ppm (MAC (CH))

(MAC (CH))

There is no reason to fear a risk of damage to the developing embryo or fetus when the occupational exposure limits or biological exposure limit (BEL) are adhered to.

13473-90-0: Aluminium nitrate

TWA value 2 mg/m³ (MAC (CH)), Inhalable fraction

Measured as: aluminum (Al)

Components with biological limit values

1344-28-1: Aluminium oxide

CH BAT

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Determinant: aluminium
 Biological Specimen: Creatinine in urine
 Sampling time: Long term exposure after several (4-5) work shifts
 Concentration: 50 µg/g Creatinine

7784-18-1: Aluminium fluoride

CH BAT

Determinant: fluoride
 Biological Specimen: Urine
 Sampling time: End of exposure / end of shift
 Concentration: 4 mg/l
 Environmental effects

Components with PNEC

| 7664-39-3: Hydrogen fluoride

freshwater: 0,9 mg/l
 marine water: 0,9 mg/l
 intermittent release:
 No PNEC value available.
 STP: 51 mg/l
 sediment (freshwater):
 No PNEC value available.
 sediment (marine water):
 No PNEC value available.
 soil: 11 mg/kg
 oral (secondary poisoning):
 No PNEC value available.

13473-90-0: Aluminium nitrate

freshwater: 0,0003 mg/l
 marine water: 0,00003 mg/l
 intermittent release: 0,00075 mg/l
 STP: 20 mg/l
 sediment (freshwater): 0,0025 mg/kg
 sediment (marine water): 0,00025 mg/kg
 soil: 0,00032 mg/kg

Components with DNEL

| 7664-39-3: Hydrogen fluoride

worker: Short-term exposure - systemic and local effects, Inhalation: 2,5 mg/m³
 worker: Long-term exposure - systemic and local effects, Inhalation: 1,5 mg/m³

13473-90-0: Aluminium nitrate

worker: Long-term exposure- systemic effects, Inhalation: 0,5 mg/m³
 worker: Long-term exposure- systemic effects, dermal: 0,34 mg/kg bw/day

8.2. Exposure controls

Appropriate engineering controls

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Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory protection:

For short-time or low exposures in well ventilated areas, use a half mask in combination with a filter. (Gas filter EN 14387 NO-P3)

When working in narrow, closed and low-oxygen areas (e.g. containers) use self-contained breathing apparatus (EN 133).

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

chloroprene rubber (CR) - 0.5 mm coating thickness

butyl rubber gloves - material thickness: 0.5 mm

natural rubber/natural latex (NR) - 0.5 mm coating thickness

polyvinylchloride (PVC) - 0.7 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	grey
Odour:	perceptible
pH value:	1 - 2
Melting point:	not determined

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onset of boiling:	not determined
Flash point:	not applicable
Flammability:	not applicable
Lower explosion limit:	not determined
Ignition temperature:	not determined
Vapour pressure:	(20 °C) not determined
	(50 °C) not determined
Density:	1,980 g/cm ³ (20 °C)
Solubility in water:	Immiscible or partially miscible with water
Viscosity, dynamic:	not determined
Viscosity, kinematic:	(40 °C) not determined 6,0 mm ² /s (20 °C)
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Miscibility with water:	miscible
Flow time:	< 30 s (DIN EN ISO 2431; 3 mm)

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effect on metals.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Reacts with metals, with evolution of hydrogen.

10.4. Conditions to avoid

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Avoid direct sunlight. Avoid freezing. avoid contact with metals

10.5. Incompatible materials

Substances to avoid:

metal, glass, Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

10.6. Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term skin contact.

Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

Respiratory/Skin sensitization

Assessment of sensitization:

Based on available data, the classification criteria are not met.

Experimental/calculated data:

No data available.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity

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Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on available data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

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According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.
No disposal via sewage or waste water systems.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging:

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number	UN2922
UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (contains Aluminium fluoride, HYDROFLUORIC ACID)
Transport hazard class(es):	8, 6.1
Packing group:	II
Environmental hazards:	no
Special precautions for user:	Tunnel code: E

RID

UN number	UN2922
UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (contains Aluminium fluoride, HYDROFLUORIC ACID)

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Transport hazard class(es): 8, 6.1
Packing group: II
Environmental hazards: no
Special precautions for user: None known

Inland waterway transport

ADN

UN number: UN2922
UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Aluminium fluoride, HYDROFLUORIC ACID)
Transport hazard class(es): 8, 6.1
Packing group: II
Environmental hazards: no
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number: UN 2922
UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Aluminium fluoride, HYDROFLUORIC ACID)
Transport hazard class(es): 8, 6.1
Packing group: II
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: None known

Air transport

IATA/ICAO

UN number: UN 2922
UN proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (contains Aluminium fluoride, HYDROFLUORIC ACID)
Transport hazard class(es): 8, 6.1
Packing group: II
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

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14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content: 0,0 %

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Water hazard class (German AwSV of August 1, 2017): (1) Weakly water polluting.

Annex 1 of the Ordinance on Protection against Major Accidents contains criteria for determining maximum levels based on toxicity, flammability, explosiveness, and eco-toxicity.

15.2. Chemical Safety Assessment

(now part of BASF Group) safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

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Previous version: 2.0

Product: **MCT 201**

(ID no. 30712996/SDS_GEN_CH/EN)

Date of print 03.04.2024

Chemical Safety Assessment not required

SECTION 16: Other Information

Literature and Data Sources: REACH-Regulation (EC) No. 1907/2006. CLP-Regulation (EC) No. 1272/2008.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Met. Corr.	Corrosive to metals
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H300	Fatal if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the

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responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.