

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: ctg\_0061\_wmf Issue date: 2/21/2022 Revision date: 1/4/2024 Supersedes version of: 2/21/2022 Version: 1.1

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Cromargol® Edel Entkalker
UFI	: WENU-E1K0-U000-C8RE
Product code	: 3200000454 = 2er Standardpackung / 3200000543 = 4er Sparpackung / 003-3

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

#### 1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

Professional use,Consumer useDescaler

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

Distributor	Distributor
WMF consumer electric GmbH	WMF GmbH
Messerschmittstraße 4	WMF Platz 1
89343 Jettingen-Scheppach	73312 Geislingen an der Steige, Germany
Germany	T +49 (0) 7331 256 256
T +49 (0) 8225 3080 - 0	info@wmf.de
contact-de@wmf.com	

#### 1.4. Emergency telephone number

Emergency number

: Operating hours 24 hours / 24 hours, 7 days a week German English

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Vergiftungs-Informations-Zentrale Universitätsklinikum Freiburg, Zentrum für Kinder- und Jugendmedizin		+49 (0) 761 19240	

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin corrosion/irritation, Category 2	H315	
Full text of H- and EUH-statements: see section 16		

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation.

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :

Signal word (CLP)



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Hazard statements (CLP) Precautionary statements (CLP) Child-resistant fastening Tactile warning	<ul> <li>H315 - Causes skin irritation.</li> <li>P101 - If medical advice is needed, have product container or label at hand.</li> <li>P102 - Keep out of reach of children.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
<b>2.3. Other hazards</b> Other hazards which do not result in classification	: Repeated or prolonged skin contact may cause dermatitis and defatting. May cause eye-

irritation of susceptible persons.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulphamidic acid; sulphamic acid; sulfamic acid	CAS-No.: 5329-14-6 EC-No.: 226-218-8 EC Index-No.: 016-026-00-0 REACH-no: 01-2119488633-28	1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Bis(2-hydroxyethyl) oleyl amine	CAS-No.: 25307-17-9 EC-No.: 246-807-3	0.02 - 0.04	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.</li> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.</li> </ul>
: Get immediate medical advice/attention. Rinse mouth out with water. Do not induce vomiting. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label.
cts, both acute and delayed
<ul> <li>Irritation.</li> <li>May be irritating to the mucous membranes and to the respiratory system. May cause irritation to the digestive tract.</li> </ul>

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

Treat symptomatically.

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<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>None to our knowledge.</li></ul>
ice or mixture
: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), NH3, sulphur compounds. Phosphorus oxides.
<ul> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire-fighting to enter drains or water courses.</li> </ul>

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment	t and emergency procedures
General measures	: If spilled, may cause the floor to be slippery. Clean up any spills as soon as possible, using an absorbent material to collect it.
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	<ul><li>Stop leak without risks if possible.</li><li>Take up liquid spill into absorbent material.</li></ul>	
Other information	: Dispose of materials or solid residues at an authorized site.	

## 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Always add the product to the water for dilution/mixture.	
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Ensure good ventilation of the work station.	
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in original container.	
Incompatible products	: Oxidizing agent. Strong bases.	
Information on mixed storage	: Keep away from (strong) bases. Keep away from oxidizing agents.	
Storage area	: Avoid sub-soil penetration.	
Special rules on packaging	: No metal corrosion expected. The information is based on our own tests.	
Storage class (LGK, TRGS 510)	: LGK 12 - Non-combustible liquids	
Joint storage not permitted for	: LGK 1, LGK 6.2, LGK 7	

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Joint storage with restrictions permitted for	: LGK 4.1A, LGK 4.3, LGK 5.1C
Joint storage permitted for	: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B,
	L GK 6.1C. L GK 6.1D. L GK 8A. L GK 8B. L GK 10. L GK 11. L GK 12. L GK 13. L GK 10-13

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

#### Eye protection:

Wear security glasses which protect from splashes

#### 8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

#### Hand protection:

Protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber, Neoprene rubber (HNBR)	6 (> 480 minutes)	0,4		EN ISO 374

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

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#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Colour     : light yellow.       Odour     : characteristic.       Odourtheasthald     : Nationality light
O de un three de a la l
Odour threshold : Not available
Melting point : Not available
Freezing point : Not available
Boiling point : Not available
Flammability : Not available
Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : Not available
Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : 1.2 - 1.4
Viscosity, kinematic : Not available
Solubility : Miscible with water.
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 1.09 g/ml
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content

: <3%

# SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. 10.4. Conditions to avoid None under recommended storage and handling conditions (see section 7). 10.5. Incompatible materials

Oxidizing agent. Strong bases.

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#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

	s defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified : Not classified		
Acute toxicity (inhalation)			
sulphamidic acid; sulphamic acid; su	Ifamic acid (5329-14-6)		
LD50 oral rat	2140 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other:		
LD50 oral	> 3160 mg/kg bodyweight RTECS No		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LD50 dermal	> 2000 mg/kg bodyweight		
Skin corrosion/irritation	: Irritating to skin. (OECD 431 method)		
	pH: 1.2 – 1.4		
Serious eye damage/irritation	: Not classified (No eye irritation; (OECD 437 method)). (No eye irritation. (OECD 437 method)		
	pH: 1.2 - 1.4		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity Reproductive toxicity	: Not classified : Not classified		
1 ,			
sulphamidic acid; sulphamic acid; su	famic acid (5329-14-6)		
NOAEL (animal/female, F1)	500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects)		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Bis(2-hydroxyethyl) oleyl amine (253)	07-17-9)		
Viscosity, kinematic	162.073 mm <sup>2</sup> /s		

No additional information available

SECTION 12: Ecological information			
12.1. Toxicity			
Hazardous to the aquatic environment, short-term (acute)	We have no quantitative data concerning the ecological effects of this product. Not classified Not classified		
(chronic)			
sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)			
sulphamidic acid; sulphamic acid; sulfamic aci	d (5329-14-6)		
sulphamidic acid; sulphamic acid; sulfamic acid LC50 - Fish [1]	<b>J (5329-14-6)</b> 70.3 mg/l		
· · · · ·			
LC50 - Fish [1]	70.3 mg/l		

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sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)			
EC50 72h - Algae [1]	48 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
EC50 72h - Algae [2]	33.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
LOEC (chronic)	34 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC (chronic)	19 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	≥ 60 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'		
Bis(2-hydroxyethyl) oleyl amine (25307-17-9)			
LC50 - Fish [1]	0.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
LC50 - Fish [2]	0.29 mg/l Brachydanio rerio (zebra-fish)		
EC50 - Crustacea [1]	0.043 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	0.086 mg/l Pseudokirchneriella subcapitata		

#### 12.2. Persistence and degradability

Cromargol® Edel Entkalker	
°,	No data is available on the degradability of this product. Neutralisation is necessary before draining of to the purification plant.

#### 12.3. Bioaccumulative potential

sulphamidic acid; sulphamic acid; sulfamic acid (5329-14-6)			
Partition coefficient n-octanol/water (Log Pow)	-4.34		

## 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Cromargol® Edel Entkalker
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations Additional information	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Waste code can't be determined according to the European Waste Catalogue (EWC), since it depends on the use of the product. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> </ul>
R/D code (Recovery/Disposal, EU 2008/98)	: D10 - Incineration on land

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SECTION 14: Transport information In accordance with ADR / IMDG / IATA			
ADR	IMDG	ΙΑΤΑ	
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	
14.4. Packing group			
Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	
No metal corrosion expected, The information is based on our own tests.			

#### 14.6. Special precautions for user

Overland transport Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Other information, restriction and prohibition : Detergent Regulation. In the scope of Annex VIII to CLP. regulations

#### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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#### VOC Directive (2004/42)

VOC content

: <3%

# Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes version of	Added	
	Display additional SDS EU addresses	Added	
	Revision date	Added	
1.1	Name	Modified	English name
1.1	Product code	Modified	
1.4	Emergency number	Removed	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association

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Abbreviations and acronyms:		
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vРvВ	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

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	nents:
Skin Irrit. 2 Skin co	corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.