

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.01.2019

Version number 2

Revision: 23.01.2019

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

- **1.1 Product identifier**
- **Trade name: CROMOBRILL 2G**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages PW** Widespread use by professional workers
- **Sector of Use SU22** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category PC35** Washing and cleaning products (including solvent based products)
- **Application of the substance / the mixture** Rust remover/ rust-removing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MA-FRA S.p.A. a Socio Unico
Via Aquileia, 44/46
20021 Baranzate (MI) ITALIA
Tel. +39 023569981
www.mafra.com
mafra@mafra.it
- **Informing department:**
E-mail: lab@mafra.it
info@mafra.it
- **1.4 Emergency telephone number:**
Contact the local hospital or the poison control center closest to you
In case of accident call the emergency number 112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
sulphuric acid
ammonium hydrogendifluoride
Ethoxylated non ionic surfactant
Betaine alkyl amido propil dimetil
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

- 2.3 Other hazards**- Results of PBT and vPvB assessment**- **PBT:** Not applicable.- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures- **Description:** Mixture of substances**- Dangerous components:**

CAS: 7664-93-9 EINECS: 231-639-5 Reg.nr.: 01-2119458838	<i>sulphuric acid</i> ⚠ Skin Corr. 1A, H314	15-25%
CAS: 1341-49-7 EINECS: 215-676-4 Reg.nr.: 01-2119489180-38	<i>ammonium hydrogendifluoride</i> ⚠ Acute Tox. 3, H301; ⚠ Skin Corr. 1B, H314	3-5%
CAS: 68131-39-5 Polymer	<i>Ethoxylated non ionic surfactant</i> ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	1-<3%
CAS: 147170-44-3 EC number: 931-333-8 Reg.nr.: 01-2119489410-39-0001	<i>Cocamidopropyl Betaine</i> ⚠ Eye Dam. 1, H318; Aquatic Chronic 3, H412	1-<3%

- Regulation (EC) No 648/2004

non-ionic surfactants, amphoteric surfactants

<5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General information**

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation** In case of unconsciousness bring patient into stable side position for transport.**- After skin contact**

Instantly wash with water and soap and rinse thoroughly.

Call a doctor immediately.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.**- After swallowing**

Do not induce vomiting; instantly call for medical help.

Instantly call for doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** Gastric or intestinal trouble**- 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation

Medical supervision for at least 48 hours

SECTION 5: Firefighting measures

- 5.1 Extinguishing media**- Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Sulphur dioxide (SO₂)

Carbon monoxide (CO)

- 5.3 Advice for firefighters

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** Protect from heat.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- **Requirements to be met by storerooms and containers:** Store only in the original container.

- **Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).

- **Further information about storage conditions:** Keep container tightly sealed.

- Storage class

- **Class according to regulation on inflammable liquids:** Void

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- 8.1 Control parameters

- **Components 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.

- DNELs

7664-93-9 sulphuric acid

Inhalative	Local long-term effects	0.05 mg/m ³ (Industrial Workers)
	Local short-term effects	0.1 mg/m ³ (Industrial Workers)

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147170-44-3 Cocamidopropyl Betaine

Oral	Systemic Long-term Effects	7.5 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	12.5 mg/Kg bw/day (Industrial Workers)
		7.5 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	44 mg/m ³ (Industrial Workers)

- PNECs**7664-93-9 sulphuric acid**

PNEC STP	8.8 mg/L (STP)
Soft Water	0.003 mg/L (Water)
Sea water	0.00025 mg/L (Water)
Sediment (soft water)	0.002 mg/Kg (Soil)
Sediment (sea water)	0.002 mg/Kg (Soil)

147170-44-3 Cocamidopropyl Betaine

PNEC STP	3,000 mg/L (STP)
Soil	0.8 mg/Kg (Soil)
Soft Water	0.013 mg/L (Water)
Sea water	0.001 mg/L (Water)
Sediment (soft water)	1 mg/Kg (Water)
Sediment (sea water)	0.1 mg/Kg (Soil)

- Additional information: The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls**- Personal protective equipment****- General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- Breathing equipment: Not necessary if room is well-ventilated.

- Protection of hands:

Protective gloves.

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

Nitrile rubber, NBR

PVC gloves

- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

- Eye protection:

Tightly sealed safety glasses.

- Body protection: Acid resistant protective clothing

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	Colourless
- Odour:	Pungent
- Odour threshold:	Not determined.

- pH-value at 20 °C: <2

- Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	100 °C
- Flash point:	Not applicable
- Inflammability (solid, gaseous)	Not applicable.
- Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not explosive.
- Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
- Vapour pressure at 20 °C:	23 hPa
- Density at 20 °C	1.18 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
Water:	Fully miscible
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions

- 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions

Reacts with alkali (lyes)

Reacts with strong alkali

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: Reacts with strong alkali

- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

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

- LD/LC50 values that are relevant for classification:

7664-93-9 sulphuric acid

Oral	LD50	2,140 mg/Kg (Rat)
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147170-44-3 Cocamidopropyl Betaine

Oral LD50 2,335 mg/Kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**- 12.1 Toxicity****- Aquatic toxicity:****7664-93-9 sulphuric acid**

LC50 (4 h) 0.85 mg/L (Mouse)

LC50 (96h) >16-<28 mg/L (Fish)

EC50 (72h) >100 mg/L (Algae)

- 12.2 Persistence and degradability The contained surfactants are easily biodegradable**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- Additional ecological information:****- General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into soil.

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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.

- 12.5 Results of PBT and vPvB assessment**- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:**- Recommendation:** Disposal must be made according to official regulations.

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- Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- UN-Number - ADR, IMDG, IATA	UN3264
- 14.2 UN proper shipping name - ADR, IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID)
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA	
	
- Class - Label	8 Corrosive substances. 8
- Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user - Kehler Number: - EMS Number: - Segregation groups - Stowage Category - Stowage Code	Warning: Corrosive substances. 80 F-A,S-B Acids B SW2 Clear of living quarters.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category - Tunnel restriction code - IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	2 E 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65
- National regulations
- Classification according to VbF: Void

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- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H412 Harmful to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation

Serious eye damage/eye irritation

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing data specification sheet:** Ma-Fra Laboratories

- **Contact:** lab@mafra.it

- Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * **Data compared to the previous version altered.**