




Safety Data Sheet
CONTROL METAL RX

Safety Data Sheet dated 16/10/2017, version 3

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

- 1.1. Product identifier
Mixture identification:
Trade name: CONTROL METAL RX
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified use:
Specific product for removal of wastes of iron and manganese from filtering equipment and pool surfaces.
Uses advised against:
Any other use different from the identified uses.
- 1.3. Details of the supplier of the safety data sheet
Company:
BARCHEMICALS SRL
VIA S.ALLENDE 14
CASTELNUOVO RANGONE (MO)
ITALY
PHONE. +39 059/536502
FAX. +39 059/536742
www.barchemicals.it
Competent person responsible for the safety data sheet:
barani.corrado@barchemicals.it
- 1.4. Emergency telephone number
Barani Dr.Corrado - MOBILE PHONE. +39 335/6109383

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria n°1272/2008 (CLP)
 Warning, Acute Tox. 4, Harmful if swallowed.

EUH031 Contact with acids liberates toxic gas.

Adverse physicochemical, human health and environmental effects:

No other hazards

- 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H302 Harmful if swallowed.

Precautionary statements:

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P330 Rinse mouth.

Special Provisions:

EUH031 Contact with acids liberates toxic gas.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards


SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 20% - < 25%	sodium hydrogensulphite . . . %; sodium bisulphite . . . %	Index 016-064-00-8 number: CAS: 7631-90-5 EC: 231-548-0 REACH No.: 01- 2119524563- 42	 3.1/4/Oral Acute Tox. 4 H302 EUH031

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

After contact with skin, wash immediately with soap and plenty of water.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Rinse well your mouth

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

In case of breathing difficult, bring the injured person into the open air and store it in a comfortable position for breathing. Consult a physician.

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

Contact with the skin produces redness, burning and pain.

After contact with the eyes produces redness and pain.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

After contact with skin, wash immediately with plenty of soap and water.

In case of contact with eyes, rinse immediately with water and seek medical advice.

In case of inhalation seek medical advice immediately and show the container or label.

If swallowed, rinse mouth. Consult a doctor as soon as possible.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
Suitable extinguishing media:
Water.
Water spray, heavy alcohol foam, dry chemical or carbon dioxide.
Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
- 5.3. Advice for firefighters
Immediately isolate the area by removing all persons from the area of the accident in the event of a fire. No action shall be taken involving any personal risk or without proper training. Firefighters must wear protective equipment and self-contained breathing apparatus (SCBA) with a full-face mask on the working face at positive pressure. Fire extinguishers (including helmets, protective boots and gloves) conforming to European Standard EN469 will provide basic protection for chemical accidents.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Remove persons to safety.
Evacuate the surrounding areas.
Prevent entry of foreign and unprotected personnel.
Do not touch or walk on spilled material.
Provide adequate ventilation.
Avoid breathing vapors or mists.
Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
See protective measures under point 7 and 8.
- 6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.
- 6.3. Methods and material for containment and cleaning up
Stop the escape if there is no risk. Move the containers from the spill area. Get closer to the source of overwhelming emission. Prevent spills in sewage systems, waterways, basements or restricted areas. Wash and convey the spilled amounts in a waste treatment plant.
In case of a liquid product, hold and absorb the spillage with inert absorbent material (eg, sand, earth, vermiculite, fossil flour). Store contaminated material in suitable containers and start waste disposal. After collection, rinse the area and the materials with water by retrieving the water used and, if necessary, dispose of it in authorized plants.
- 6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities

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Store at room temperature and away from direct sunlight.
 Keep away from food, drink and feed.
 Incompatible materials:
 Keep away from acids.
 Instructions as regards storage premises:
 Adequately ventilated premises.

7.3. Specific end use(s)
 See section 1.2.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

sodium hydrogensulphite . . . %; sodium bisulphite . . . % - CAS: 7631-90-5
 ACGIH - TWA(8h): 5 mg/m³ - Notes: A4 - Skin, eye, and URT irr

DNEL Exposure Limit Values

sodium hydrogensulphite . . . %; sodium bisulphite . . . % - CAS: 7631-90-5
 Worker Professional: 246 03 - Exposure: Human Inhalation - Frequency: Long Term,
 systemic effects

PNEC Exposure Limit Values

sodium hydrogensulphite . . . %; sodium bisulphite . . . % - CAS: 7631-90-5
 Target: Fresh Water - Value: 1.09 mg/l
 Target: Marine water - Value: 0.110 mg/l
 Target: Microorganisms in sewage treatments - Value: 82.5 mg/l

8.2. Exposure controls
Eye/face protection:

Eye glasses with side protection. EN166

Protection for skin:

Clothing resistant to corrosive products CLASS I, EN 340

Protection for hands:

Gloves resistant to chemicals. EN 374

Respiratory protection:

Not necessary in normal use.

Thermal Hazards:

Not applicable (the product is handled at room temperature)

Environmental exposure controls:

Do not allow the product to be absorbed from the soil or from entering waterways or sewers.
 Do not let product enter drains. Discharge into the environment must be avoided.

Appropriate engineering controls:

Ensure adequate ventilation. Comply with the maximum concentration values in the workplace.
 Predict the presence of showers and eye wash fountains at the workplace.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid Yellow	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	3,5	--	at 20 °C
Melting point / freezing point:	- 15 °C	--	--
Initial boiling point and boiling range:	105 °C	--	--
Flash point:	Not inflammable	--	--

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Evaporation rate:	N.A.	--	nBuAc=100 25 °C
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	40 mbar	--	at 20 °C
Vapour density:	N.A.	--	--
Relative density:	1.20	--	at 20 °C
Solubility in water:	Complete	--	--
Solubility in oil:	Not Available	--	--
Partition coefficient (n-octanol/water):	Not Available	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	150 °C	--	--
Viscosity:	Not Available	--	--
Explosive properties:	Non-explosive product	--	--
Oxidizing properties:	Not oxidizing product	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	Not Available	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity
10.1. Reactivity

The product is not pyrophoric.

10.2. Chemical stability

Stable under recommended storage and handling. Please refer to section 7 of the MSDS.

10.3. Possibility of hazardous reactions

Possible dangerous reaction with oxidizing agents.
In presence of metals.

10.4. Conditions to avoid

Keep away from heat sources.
Avoid direct sunlight.

10.5. Incompatible materials

Oxidizing agents.
Heavy metals

10.6. Hazardous decomposition products

Sulfur oxides.
Hydrogen sulfide

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

sodium hydrogensulphite . . . %; sodium bisulphite . . . % - CAS: 7631-90-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1420 mg/kg

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- Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Inhalation - Species: Rat > 5500 mg/m³
- b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Mouse Negative
- e) germ cell mutagenicity:
Test: Mutagenesis Negative
- f) carcinogenicity:
Test: Carcinogenicity - Species: Mouse Negative
- g) reproductive toxicity:
Test: Reproductive Toxicity Negative

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

- 12.1. Toxicity
No information is available on the mixture as a whole. This is the information on ecotoxicological effects of the individual components.
sodium hydrogensulphite . . . %; sodium bisulphite . . . % - CAS: 7631-90-5
- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Fish = 240 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 119 mg/l - Duration h: 48
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 316 mg/l - Notes: 34 d
- 12.2. Persistence and degradability
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

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- 14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

SECTION 16: Other information

For professional use.

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Full text of phrases referred to in Section 3:
 H302 Harmful if swallowed.
 EUH031 Contact with acids liberates toxic gas.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
 SECTION 2: Hazards identification
 SECTION 3: Composition/information on ingredients
 SECTION 4: First aid measures
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 SECTION 9: Physical and chemical properties
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 SECTION 12: Ecological information
 SECTION 14: Transport information
 SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
 Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
 Nostrand Reinold

Liability exclusion clause: The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

For professional use.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service (division of the American Chemical Society).
 CLP: Classification, Labeling, Packaging.
 DNEL: Derived No Effect Level.
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 GefStoffVO: Ordinance on Hazardous Substances, Germany.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 IMDG: International Maritime Code for Dangerous Goods.

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INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.