

RAPID DESCALER

Doc. SDS_CLP830_00-EN_GBC-DMC20-Rev.00_2016-10-14

Publication date 14/10/2016

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial name : **RAPID DESCALER**
Commercial code : **DMC20**

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

Uses consumer [SU21], Uses professional [SU22] : **Rapid descaling powder for all coffee machines and kettles**
Uses advised against : **All those not specifically identified on the label**

1.3. Details of the supplier of the safety data sheet

GBCHEM srl – Via Santa Eufemia, 8 - 25040 CORTE FRANCA (BS) - ITALY
tel. +39 3464232984

e-mail competent person: gbcchemsrl@yahoo.it

1.4. Emergency telephone number

+39 3464232984 (from 08,30 to 12,30 - from 14,00 to 18,00)

2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms : GHS07
Class codes and hazard category : Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3
Codes Hazard : H315 - Causes skin irritation
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

2.1.2 Adverse effects:

The product, if brought into contact with the eyes, the product causes considerable irritation which can last for more than 24 hours; If brought into contact with the skin it causes significant inflammation with erythema, scabs, and edema. The product is dangerous for the environment as harmful to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008:

Pictograms : GHS07
Warning code : WARNING
Codes Hazard : H315 - Causes skin irritation
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.



WARNING

Safety advice

General

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Prevention

P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.

Disposal

P501 - Dispose of contents/container to an authorized collection point.

Labelling of packaging containing less than or equal to 125 ml (Annex I Section 1.5.2)



H412 - Harmful to aquatic life with long lasting effects.
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

WARNING

2.3. Other hazards

Data not available.

3. Composition/information on ingredients

3.1. Composition/information on ingredients

Refer to section 16 for full text of hazard statements.

Substance	Concentration	Classification	CAS	EINECS	REACH
Sulphamic acid	> 40 < 60%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	5329-14-6	226-218-8	01-2119488633-28
Citric acid anhydrous E330 / 2-hydroxypropane-1,2,3-tricarboxylic acid	> 40 < 60%	Eye Irrit. 2, H319	77-92-9	201-069-1	01-2119457026-42

4. First aid measures

4.1. Description of first aid measures

Inhalation: Remove the polluted area and keep the patient at rest in open air. SEEK MEDICAL ADVICE.

Direct contact with the skin (of the pure product): Remove contaminated clothing and wash before reuse. Wash the parts that have been in contact with the product, even if only suspected, using soap and water. Do not use neutralizing substances and do not apply ointments before the 24 hours or without your doctor's. SEEK MEDICAL ADVICE.

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Direct contact with the eyes (of the pure product): Wash immediately and thoroughly for at least 15 minutes under running water with eyelids held open; then protect eyes with dry sterile gauze and resort to medical care. Do not use eye drops or ointment of any kind without specific prescription.
Ingestion: IMMEDIATELY TO MEDICAL CARE. Do not induce vomiting and do not give anything without the control of health personnel. Keep the casualty rest in open air.

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

The product is extremely destructive to mucous membranes of the upper respiratory tract, eyes and skin. Symptoms and signs of poisoning are: burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Inhalation may cause the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx. Aspiration or inhalation may cause chemical pneumonitis.

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

Refer to Section 4.1 Description of first aid measures.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: CO₂, chemical powder, alcohol-resistant foam.

Unsuitable extinguishing media: None in particular.

5.2. Special hazards arising from the substance or mixture

During combustion may develop potentially harmful fumes for health.

5.3. Advice for firefighters

Use protective clothing to respiratory system, eyes and skin. The water spray can be used to disperse the vapors and protect the people involved in the extinction. It is also recommended to use breathing apparatus, especially, if you operate in closed, poorly ventilated and in any case if you use halogenated extinguishing. Wear special protective equipment for fire team.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Move away from the area surrounding the spill or release. Not smoking.

For emergency responders: General Information: Use proper personal protective equipment as indicated in Section 8.

Precautionary measures targeted at people: Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) or from the air in the occurred loss.

6.2. Environmental precautions

Limit leakages with earth or sand preventing from entering surface water and / or sewer. If the product has escaped into large amounts in a water course or has contaminated the ground or vegetation, notify the competent authorities.

6.3. Methods and material for containment and cleaning up

Recover the product for reuse or for disposal, taking care not to cause dust. After collection, wash with abundant water the area and materials involved.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Normal precautions for handling chemical products protecting against accidental contact. Do not smoke, eat or drink when handling. When handling do not cause dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in original packaging in a cool, ventilated and protected from heat. Moisture sensitive.

7.3. Specific end use(s)

Data not available.

8. Exposure controls/personal protection

8.1. Control parameters

Substance: Citric acid anhydrous E330 / 2-hydroxypropane-1,2,3-tricarboxylic acid

PNEC

Fresh water = 0,44 (mg/l)

Sediments Fresh water = 34,6 (mg/kg/Sediments)

Sea water = 0,044 (mg/l)

Sediments Sea water = 3,46 (mg/kg/Sediments)

STP = 1000 (mg/l)

Soil = 33,1 (mg/kg Soil)

Substance: sulphamic acid

DNEL

Long-term systemic effects Inhalation Workers = 70,5 (mg/m³)

Long-term systemic effects dermal Workers = 10 (mg/kg bw/day)

Long-term systemic effects Inhalation Consumer = 17,4 (mg/m³)

Long-term systemic effects Dermal Consumer = 5 (mg/kg bw/day)

Long-term systemic effects Oral Consumers = 5 (mg/kg bw/day)

PNEC

Fresh water = 1,8 (mg/l)

Sediments Fresh water = 8,36 (mg/kg/Sediments)

Intermittent emissions = 0,48 (mg/l)

Sea water = 0,18 (mg/l)

Sediments Sea water = 0,84 (mg/kg/Sediments)

STP = 20 (mg/l)

Soil = 5 (mg/kg Soil)

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

- Eye/face protection: Use safety glasses with side protection according to EN-166
- Skin protection
 - Hand protection: They recommend waterproof protective gloves according to EN 374-1, -2 and -3 (eg. Minimum thickness 0.3 nitrile - neoprene / natural minimum 0.55 thick latex). In relation to the time of contact use gloves with IP (Index of Permeation) suitable. Gloves must be inspected before being used. Using a suitable technique for the removal of the gloves (without touching the outer surface of the glove) to avoid skin contact with the contaminated outer surface of the glove.
 - Other: Avoid direct skin contact by using appropriate protective clothing.
- Respiratory protection: In the event of use in the vicinity of the parameters indicated in section 8.1, use of protective equipment for respiratory illnesses according to the UNI EN 529: 2006 (Respiratory protective devices - Recommendations for selection, use, care and maintenance - guidance Document) establishing the appropriate FPO value "Assigned protection factor."
- Thermal hazards: Avoid exposure to open flame.

Environmental exposure controls: Avoid reckless release to the environment

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value
Appearance	White crystalline solid
Odour	practically odorless
Odour threshold	irrelevant
pH	Not applicable
Melting point/freezing point	~ 150°C
Initial boiling point and boiling range	not available
Flash point	irrelevant
Evaporation rate	irrelevant
Flammability (solid, gas)	>300°C
Upper/lower flammability or explosive limits	not available
Vapour pressure	not determined
Vapour density	not determined
Relative density	2,150 ± 0,050
Idrosolubility	Soluble in water
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	>1000°C
Decomposition temperature	2,150 ± 0,050
Viscosity	irrelevant
Explosive properties	irrelevant
Oxidising properties	irrelevant

9.2. Other information

No further data available

10. Stability and reactivity

10.1. Reactivity

Under normal conditions of use are not known reactivity phenomena.

10.2. Chemical stability

Stable in normal use and storage conditions.

10.3. Possibility of hazardous reactions

None known under normal conditions of use.

10.4. Conditions to avoid

Do not mix with other chemicals in general.

10.5. Incompatible materials

Basic chemicals.

10.6. Hazardous decomposition products

Under normal conditions it does not decompose.

11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = not available

ATE(mix) dermal = not available

ATE(mix) inhal = not available

- | | |
|--------------------------------------|---|
| a) acute toxicity | : Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | : The product, if brought into contact with the skin it causes significant inflammation with erythema, scabs, and edema. |
| c) serious eye damage/irritation | : The product, if brought into contact with the eyes, the product causes considerable irritation which can last for more than 24 hours. |
| d) respiratory or skin sensitisation | : Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity | : Based on available data, the classification criteria are not met |
| f) carcinogenicity | : Based on available data, the classification criteria are not met |
| g) reproductive toxicity | : Based on available data, the classification criteria are not met |
| h) STOT-single exposure | : Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | : Based on available data, the classification criteria are not met |
| j) aspiration hazard | : Based on available data, the classification criteria are not met |

Related contained substances:

Sulphamic acid

ROUTES OF EXPOSURE

: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK

: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when powdered.

EFFECTS OF SHORT-TERM EXPOSURE : The aerosol is corrosive to the eyes, the skin and the respiratory tract. Inhalation of sulfamic acid aerosols may cause lung edema.

ACUTE HAZARDS / SYMPTOMS

INHALATION : Burning sensation. Cough. Heavy breath.

SKIN : Redness. Pain. blisters.

EYES : Redness. Pain. Severe deep burns.

INGESTION : Abdominal cramps. Burning sensation. Sore throat. Vomiting. Shock.

NOTES : The symptoms of lung edema often do not become manifest until a few hours and they are aggravated by physical effort. They are therefore essential the rest and medical observation. It must Immediate administration of an appropriate inhalation therapy by a doctor or a person by him / her authorized.

12. Ecological information

12.1. Toxicity

The product is harmful to aquatic organisms. Adopt good working practices, avoiding release of the product in the environment.

12.2. Persistence and degradability

It does not contain surfactants.

12.3. Bioaccumulative potential

May cause long-term adverse effects in the aquatic environment.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contain pursuant to Regulation PBT / vPvB (EC) No. 1907/2006, Annex XIII.

12.6. Other adverse effects

Data not available.

13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of in compliance with current regulations. Any remaining product can be burned in a suitable incinerator equipped with post-combustion and abatement.

14. Transport information

14.1. UN Number

2967

ADR any exemption (with application of the label shown at right) if it met the following characteristics:

Combination packagings: inner packing 5 Kg package 30 Kg

Inner packaging placed in trays with shrink or extensible film: inner packing 5 Kg package 20 Kg

14.2. UN proper shipping name

SULPHAMIC ACID mixed

14.3. Hazard classes of transport

Transport hazard class(es) : 8
Label : 8
Tunnel restriction code : E
Limited quantities : 5 Kg
EmS : F-A, S-B



IATA 53rd/Edition						
Passenger and Cargo Aircraft				Cargo Aircraft Only		Special Provisions
LtdQty		Pkg Inst	Max Net Qty/Pkg	Pkg Inst	Max Net Qty/Pkg	ERG Code
Pkg Inst	Max Net Qty/Pkg					
Y845	5 kg	860	25 kg	864	100 kg	--
						8L

14.4. Packing group

III

14.5. Environmental hazards

Environmental hazards : NO
Marine pollutant : NO

14.6. Special precautions for user

The goods must be transported by vehicles authorized to the carriage of dangerous goods according to the current provisions of the Agreement A.D.R. and the national provisions applicable. The goods must be in original packaging and in any case, in packagings made of materials resistant to their content and not likely to generate dangerous reactions. People loading and the unloading of dangerous goods must be trained on the risks from these substances and on all actions that must be taken in case of emergency situations

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

It is not intended to carry bulk

15. Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EC) No 790/2009, of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents. (satisfy the requirements of Articles 9, 11 and Annex VII).

15.2. Chemical safety assessment

Chemical safety assessment not provided.



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16. Other information

16.1. Other information

Description of danger signs set out in paragraph 3

H315 = Causes skin irritation

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

Classification made based on the data of all the components of the mixture.

SOURCES

ACGIH - American Conference of Governmental Industrial Hygienists

ECHA - European Chemicals Agency

IARC - International Agency for Research on Cancer

IPCS - International Programme on Chemical Safety (Cards)

NIOSH - Registry of toxic effects of chemical substances (1983)

OSHA - European Agency for Safety and Health at Work

TOXNET - Toxicology Data Network

WHO - World Health Organization

Safety Data Sheet according to Regulation (EU) No. 2015/830 of 29 May 2015 and subsequent amendments

The information in this SDS was obtained from the best that is available or to our knowledge on the market at the specified review date. Neither the Company registered holder of this card nor the subsidiaries will accept any complaints arising from improper use of the information set forth herein or from improper use of the product in the application. Pay particular attention to the use of preparations because improper use can increase the hazard.