

## Dishwasher regenerating salt

Revision n. 01  
Revision date: 10/08/2014



### SAFETY DATA SHEET

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

##### 1.1 Product identifier

Code: [DWS115] 484000008555 - [DWS116] 484000008588 - [DWS117] 484000008678  
Name: Dishwasher regenerating salt

Sodium chloride

EC number 231-598-3  
CAS No. 7647-14-5

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

Description / Use salt tablets for dishwashers.

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

Company CHEMICAL SRL FLACER  
Location Address Bellaria 31 / A  
District and Country 40036 Vado (Bo)  
Italy  
tel. 0516778202  
fax 0515063724  
e-mail address of the competent person  
responsible for the safety data sheet info@flacer.com

##### 1.4 Emergency telephone number

For urgent safety information call the Anti-Poison Center of your country. Check the emergency list on page 6.

#### SECTION 2. Hazards Identification.

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

Product is not classified as hazardous.

##### 2.1.1. 1272/2008 Regulation (CLP) and subsequent amendments.

##### 2.2. Label elements.

-  
-  
-  
-

The product is not subject to hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments.  
Precautionary statements:

##### 2.3. Other hazards.

No one.

#### SECTION 3. Composition / information on ingredients.

##### 3.1. Substances.

The product contains no substances classified as hazardous to health or the environment pursuant to the provisions of Directives 67/548 / EEC and / or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements).

##### 3.2. Mixtures.

Information not relevant.

## SECTION 4. First aid measures.

### 4.1. Description of first aid measures.

There are no known harm to the staff authorized to use the product. In case of necessity, will adopt the following general measures:

INHALATION: Move to fresh air. If breathing has stopped, administer artificial respiration. Consult a physician immediately.

INGESTION: Consult a physician immediately. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

EYES and SKIN: Wash with plenty of water. If irritation persists, consult a physician.

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

It can cause irritation of the respiratory tract by inhalation of dust ..

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

For the cases listed above, consult your doctor in case of persistent symptoms (irritation skin, nausea and vomiting).

## SECTION 5. Fire fighting measures.

### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA

Extinguishing media which are the conventional kind: carbon dioxide, foam, powder and nebulised water.

NOT SUITABLE EXTINGUISHING MEDIA

None in particular.

### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing products of combustion. The product is combustible and, when the dust is dispersed in air in sufficient concentrations and in the presence of an ignition source can give explosive mixtures with air. Fire can grow or be further fueled by the solid, possibly removed from containers, when it reaches high temperatures or by contact with ignition sources.

### 5.3. Advice for firefighters to ` firefighting .

General information

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention. Collect extinguishing water must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal clothing to fight the fire, like a compressed air breathing apparatus open circuit (EN 137), complete with flame retardant (EN469), flame-resistant gloves (EN 659) and boots for the Fire Department (HO A29 or A30).

## SECTION 6. Accidental Release Measures.

### 6.1. Personal precautions, protective devices and procedures in case of emergency.

IF THE PRODUCT AND 'LIQUID:

Stop leak if safe to do so.

IF THE PRODUCT IS 'SOLID:

Avoid formation of dust by spraying with water if there are no contraindications. Avoid breathing vapors / mists / gas.

Wear suitable protective equipment (including personal protective equipment referred to in Section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions are valid for both clerks who work for emergency interventions.

### 6.2. Environmental precautions.

Prevent product from entering drains, surface water, ground water.

### 6.3. Methods and materials for containment and cleaning up.

IF THE PRODUCT AND 'LIQUID: Vacuum spillage in suitable container. Assess the compatibility of the container to be used with the product, checking section 10 Absorb the remainder with inert absorbent material.

IF THE PRODUCT IS 'SOLID: Pick up mechanically sparking the leaked product and place in containers for recovery or disposal. Eliminate the rest using jets of water if there are no contraindications.

Ensure adequate ventilation of the area affected by the loss. Check any incompatibilities for the container material in Section 7 Disposal of contaminated material must be done in accordance with the provisions of section 13.

### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage.

### 7.1. Precautions for safe handling.

Handle the product after consultation with all other sections of this MSDS. Avoid dispersal into the environment. Do not eat, drink or smoke during use.

### 7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in containers clearly labeled. Store containers away from any incompatible materials, verifying section 10.

### 7.3. Specific end use.

Salt tablets for dishwashers.

## SECTION 8. Exposure controls / personal protection.

### 8.1. Control parameters.

Occupational Exposure Limits: dust (respirable fraction) 3 mg / m3 ..

### 8.2. Exposure controls.

Observe the safety measures used in handling chemical substances.

RESPIRATORY PROTECTION

Not required.

EYE PROTECTION

Not required.

HAND PROTECTION

Not required.

SKIN PROTECTION

Not required.

## SECTION 9. Physical and chemical properties.

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

APPEARANCE Crystals

ODOR Odorless

PH 7.5 (18 ° C)

MELTING POINT 801 ° C

BOILING RANGE 1413 ÷ 1465 ° C

FLASH POINT 'Not applicable

EVAPORATION RATE Not applicable

FLASH 'Not flammable

VAPOUR PRESSURE Not applicable

DENSITY 'RELATED 2170 kg / m3 (20 ° c)

DENSITY 'APPARENT 1250 kg / m3 approx

SOLUBILITY 'IN H<sub>2</sub>O 310 g / l (18 ° C)

SOLUBILITY 'IN OTHER SOLVENTS Soluble in glycerol

COEFFICIENT: N-Octanol / Water: Not determined

AUTO-IGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE Not applicable

VISCOSITY 'Not applicable

PROPERTY 'EXPLOSIVE not explosive

PROPERTY 'OXIDANTS Not applicable

### 9.2. Other information.

The data refer to the physical and chemical properties of the pure compound.

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions.

The Product is stable but reacts violently with bromine trifluoride or lithium.

### 10.4. Conditions to avoid.

Aqueous solutions are conductors of electricity and can corrode metals.

### 10.5. Incompatible materials.

Metals in general except stainless steel.

### 10.6. Hazardous decomposition products.

When exposed to temperatures exceeding 1413 ° C may emit toxic fumes of chlorine oxide or Sodium, (Cl<sub>2</sub>, Na<sub>2</sub>O).

## SECTION 11. Toxicological information.

### 11.1. Information on toxicological effects.

Slight irritant power for equipment or exposed organs. By ingestion or inhalation very high amount of possible dehydration and digestive problems or heart disease.

Acute Toxicity LD<sub>50</sub> oral / rat: 3000 mg / kg.

Toxicity LD<sub>50</sub> for acute dermal toxicity: not determined.

LC<sub>50</sub> for acute inhalation toxicity: not determined.

Not mutagenic and carcinogenic them.

## SECTION 12. Ecological information.

### 12.1 TOXICITY

Negligible ecotoxicity. Avoid release to the environment.

### 12.2 PERSISTENCE AND DEGRADABILITY

In high concentrations may have inhibitory effects on the activity of microorganisms in wastewater treatment plants.

### 12.3 POTENTIAL 'BIOACCUMULATION

Possibility of accumulation of chlorides in soil and plants.

### 12.4 MOBILITY 'IN SOIL

Not applicable.

### 12.5 RESULTS OF PBT AND vPvB

Not applicable.

### 12.6 OTHER ADVERSE EFFECTS

None.

Use according to good working practices, avoiding disposal in the environment. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

## SECTION 13. Disposal considerations.

### 13.1. Methods of waste treatment.

Reuse, when possible. The product residues should be considered as non-hazardous waste.

Disposal must be performed through an authorized waste management, in compliance with national and local regulations.

For solid residues may be suitable for disposal in a sanitary landfill.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Recover if possible.

To dispose of the product or containers, uncleaned / reclaimed rivolgersi a società espressamente autorizzata la gestione dei rifiuti (recupero o smaltimento di rifiuti pericolosi).

The containers cleaned / decontaminated should be disposed of / recovered as special rifiuti.

Never discharge the product into surface water or groundwater.

Where applicable, refer to the following standards: 91/156 / EEC, 91/689 / EEC, 94/62 / EC and subsequent adjustment.

## SECTION 14. Transport information.

The product is not classified as dangerous under current provisions of the Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

## SECTION 15. Regulatory information.

### 15.1. Standards and legislation on health, safety and environment specific for the substance or mixture.

Seveso category.

No.

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006.

No.

Substances in Candidate List (Art. 59 REACH).

No.

Substances subject to authorization (Annex XIV REACH).

No.

Substances subject to export notification Reg. (EC) 689/2008:

No.

Substances under the Rotterdam Convention:

No.

Substances subject to the Stockholm Convention:

No.

Healthcare controls.

## 15.2. Chemical Safety Assessment.

This product is not considered dangerous.

Classified, packaged and labeled in accordance with the provisions in force.

CAS NUMBER: 7647-14-5 EC No.: 231-598-3 INDEX NUMBER: NOT APPLICABLE

## SECTION 16 Other information.

### LEGEND:

- ADR: European Agreement on the Transport of Dangerous Goods by Road
- NUMBER CAS: Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EC NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: Regulation 1272/2008
- DNEL: Derived no effect level
- Ems: Emergency Schedule
- GHS: Globally Harmonised System for the Classification and Labelling of Chemicals
- IATA DGR: Regulations for the Safe Transport of Dangerous Goods by the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International Maritime Code for the Transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: ID number nell'Annesso VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic in accordance with the REACH
- PEC: Predicted Environmental Concentration
- PEL: predictable level of exposure
- PNEC: predicted no-effect concentration
- REACH Regulation EC 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by rail
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time EXPOSURE work.
- TWA STEL: Short Term Exposure Limit
- TWA: weighted average exposure limit
- VOC: Volatile Organic Compound
- VPvB: Very persistent and very bioaccumulative in accordance with the Reach.

### GENERAL BIBLIOGRAPHY

- 1 Directive 1999/45 / EC, as amended
- 2 Directive 67/548 / EEC and subsequent amendments
- 3 Regulation (EC) 1907/2006 of the European Parliament (REACH)
- 4 Regulation (EC) 1272/2008 of the European Parliament (CLP)
- 5 Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
- 6 Regulation (EC) 453/2010 of the European Parliament
- 7 Regulation (EC) 286/2011 of the European Parliament (ATP II. CLP)
8. The Merck Index. Ed. 10
- 9 Handling Chemical Safety
- 10 Niosh - Registry of Toxic Effects of Chemical Substances
- 11 INRS - Fiche Toxicologique
- 12 Patty - Industrial Hygiene and Toxicology
- 13 N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
- 14 Web Agency ECHA

Note: USER:

The information contained in this data sheet is based on the knowledge available to us at the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

It should not be construed as a guarantee on any specific product property.

The use of this product is not subject to our direct control, users must, under their own responsibility, laws and regulations relating to health and safety. We assume no responsibility for improper use.

Provide adequate training to staff all'utilizzo chemicals.










Changes to previous review.

Changes were made to the following sections:

02/05/08/09/11/12/15/16.

## Emergency telephone numbers

For urgent safety information call the Anti-Poison Center of your country:

	<b>COUNTRY</b>	<b>CUSTOMER SERVICE NR.</b>	<b>ANTI-POISON CENTER NR.</b>
	AUSTRIA	(0043) 050 6700 200	(0043) 01 406 43 43
	BELGIUM	0032 (0)2 263 33 33	(0032) 070 245 245
	CZECK REP.	(00420) 840 111 313	(00420) 224 91 54 02
	DENEMARK	(0045) 44880280	(0045) 82121212
	FINLAND	(09) 61336 235	(09) 471977
	FRANCE	(0033) 0892 700 150	(0033) 01 40 05 48 48
	GERMAN	(0049) 0711 93533655	(0049) 0761 19240
	GREECE	(0030) 2109946400	(0030) 2107793777
	HOLLAND	0031 (0)76 530 6400	(0031) 030 274 8888
	HUNGARY	(0036) 06 40 109 109	(0036) 80 20 11 99
	IRELAND	(00353) 0844 815 8989	(00353) 1 8092566
	ITALY	(0039) 199 580 480	(0039) 02 66101029
	NORWAY	(0047) 22782500	(0047) 22 59 13 00
	POLAND	(0048) 801 900 666	Warszawa: (0048) 22 619 66 54 Gdańsk: (0048) 58 682 04 04 Poznań: (0048) 61 847 69 46 Kraków: (0048) 12 411 99 99
	PORTUGAL	(00351) 707 203 204	(00351) 808 250143
	ROMANIAN	(0040) 0372 117 745	
	RUSSIA	007 (495)745 57 31	
	SLOVAKIA	(00421) 0850 003 007	(00421) 2 54774166
	SPAIN	(0034) 902 203 204	(0034) 915 620 420
	SWEDEN	(0046) 0771 751570	(0046) 08 331231
	SWISS	(0041) 0848 801 005	(0041) 145
	UK	(0044) 0844 815 8989	(0044) 0845 46 47 (0044) 020 7188 0600
	UCRAIN	(00380) 0 800 501 150	