

Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: **GRAN DEZ 2008**

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

Acidic product, designed for cleaning and disinfecting surfaces and devices in food industry department (also including those with direct contact with food).

Permission for trading biocidal product: 3437/08.

1.3 Details of the supplier of the safety data sheet:

TENZI Sp. z o.o. Skarbimierzyce 20 72-002 Dołuje tel. +48 91 3119777 fax. +48 91 3119779

E-mail address for a competent person responsible for SDS: technolog@tenzi.pl

1.4 Emergency telephone number:

+48 91 31 19 777 (mon. - fri. 8am - 4pm) or 112.

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

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

Skin Corr. 1B H314 — Causes severe skin burns and eye damage. Eye Dam. 1 H318 — Causes serious eye damage. Aquatic Acute 1 H400- Very toxic to aquatic life.

2.2. Label elements:

(According to 1272/2008/EC*)

Hazard symbols:





Signal words:

DANGER

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage. H400 - Very toxic to aquatic life.

Precautionary statements:

- Wear protective gloves/protective clothing/eye protection/face protection.

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P330+P331

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P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 – Immediately call a POISON CENTER/doctor

P405 – Store locked up.

2.3. Other hazards:

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Composition (according to: 648/2004/EC):

- < 5% anionic surfactants - < 5-15% non-ionic surfactants

- 100 g/kg didecyl dimethyl ammonium chloride (DDAC) (active substance)

- < 40% phosphoric acid (75%)

- auxiliary substances not classified as dangerous

Identification		Hazardous ingredient/classification	Concentration	
CAS: WE: Index: Registration:	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24-XXXX	Phosphoric acid (75%)		
		Skin Corr. 1B H314, Met. Corr. 1 H290	< 40%	
CAS: WE: Index: Registration:	68439-54-3 Polymer Not applicable Introductory	Non-ionic surfactants	< 10%	
		Eye Dam. 1 H318, Acute Tox. 4 H302		
CAS: WE: Index: Registration:	7173-51-5 230-525-2 Not applicable 01-2119945987-15-XXXX	Didecyl dimethyl ammonium chloride (DDAC) (active substance)		
		Acute Tox. 3 H301, Skin Corr. 1 B H314, Aquatic Acute 1 H400	10%	

The full texts of H symbols and phrases are in section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures:

Inhalation:

In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move the injured to fresh air. Make sure to keep him calm and warm. Get medical attention.

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Skin contact:

If product comes in contact with the skin, immediately remove all contaminated clothing and flush exposed area with large amounts of water. In case of skin changes or burns, get medical attention.

Eye contact:

Flush eyes with running water (at least 15 minutes) while keeping eyelids open. Get medical attention.

Ingestion:

DO NOT induce vomiting. Give lots of water to drink. DO NOT give any neutralizing agents. Immediately get medical attention and show this SDS or label.

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

Inhalation:

After long-time exposure without proper ventilation, it may cause irritation of the upper respiratory tract.

Skin:

Causes skin burns.

Eyes

Corrosive. Causes serious damage to eyes.

Ingestion:

May cause irritation of the mucous membranes.

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

Get medical attention.

Fresh water and eye-wash preparations must be available on the worksite.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

Don't use water jet on liquid's surface.

5.2. Special hazards arising from the substance or mixture:

Product is non-flammable.

5.3. Advice for firefighters:

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire, warn the people nearby and evacuate unprotected and untrained personnel from hazard area. Notify relevant emergency services. If possible, remove the containers away from the influence of fire and high temperature. Water may be used to keep fire-exposed containers cool until fire is out. The after burning residues should be removed

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Protective clothes, protective acidic-proof gloves (0.11 mm thick), safety glasses.

For emergency responders:

Protective clothes, protective acidic-proof gloves (0.11 thick), self-contained breathing apparatus, safety glasses. Avoid skin and eye contact. Provide proper ventilation.

6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground at all costs.

6.3. Methods and material for containment and cleaning up:

In case of unexpected release of the substance into the environment, inform appropriate services about the emergency and remove any source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible, confine and contain the spill by closing the flow of the liquid, plug the damaged container and put it into leakproof wrapping. For a larger spill, make a dike around the outside edges of the spill and use absorbent materials (sand, sawdust, minced limestone). Store clean-up materials for disposal as hazardous waste. Decontaminate polluted area with water.

6.4. Reference to other sections:

See section 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Be careful when working with this product.

Use personal protection recommended in section 8

Mix only with water. DO NOT mix with any other chemical substances.

People with skin allergy or respiratory system problems should not have contact with this product.

Avoid risk - read this instruction sheet carefully before using the product.

After usage, keep container tightly closed and keep it away from unauthorized people.

Use only adequate ventilation to avoid inhalation poisoning.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a tightly closed, original plastic container. Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor.

DO NOT expose the product to sunlight and keep away from heat, sparks, flame and source of ignition.

7.3. Specific end use(s):

No data available.

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SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters:

Please check any national occupational exposure limit values in your country.

NDS/NDSCh/NDSP values for individual chemical substances (according to SDS or Chemical Safety Report):

Phosphoric acid (data for highly concentrated substance):

NDS: 1 mg/m³ NDSCh: 2 mg/m³ NDSP: not identified.

Non-ionic surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified

Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified.

DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report):

Phosphoric acid (data for highly concentrated substance):

DNEL, PNEC: no data available.

Non-ionic surfactants (data for highly concentrated substance):

DNEL, **PNEC**: no data available.

Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

DNEL, **PNEC**: no data available.

NOTE: When the concentration of substance is known, personal protective equipment should be chosen based on substance concentration in a workplace, exposure time and operations performed by the employee. In emergency situations, if substance concentration in the workplace is unknown, personal protection of highest class level should be used.

8.2. Exposure controls:

RESPIRATORY PROTECTION:

Not needed.

HAND PROTECTION:

Protective gloves resistant to acidic substances.

0.11 mm thick.

EYE/FACE PROTECTION:

Safety glasses.

SKIN PROTECTION:

Protective clothes.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance: Colourless liquid

Odour: Characteristic for materials used in production

Odour threshold: No data available

pH: 1 ± 1

Melting point: No data available Freezing point: Initial boiling point: No data available No data available **Boiling range:** No data available Flash point: No data available **Evaporation rate:** No data available Flammability (solid, gas): No data available Upper flammability limit: No data available Lower flammability limit: No data available Upper explosive limit: No data available Lower explosive limit: No data available Vapour pressure: No data available Vapour density: No data available $1.150 \pm 0.020 \text{ g/cm}^3$ Relative density:

Solubility:

A) Water: soluble

B) Organic solvent: No data available

Partition coefficient N-Octan:
No data available

9.2. Other information:

Refractive index: 37% Brix ± 5%

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

No data available.

10.2 Chemical stability:

Stable under recommended storage conditions (see section 7).

10.3 Possibility of hazardous reactions:

Produces easily flammable hydrogen, when In contact with common metals.

10.4 Conditions to avoid:

Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.

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^{* -} Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w).



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10.5 Incompatible materials:

May react with chlorines, perchlorates, hydrochloric acids, and organic substances.

10.6 Hazardous decomposition products:

Phosphorus oxides, nitrogen oxides, carbon monoxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

ACUTE TOXICITY:

Inhalation: after long-time exposure without proper ventilation, it may cause irritation of the upper respiratory tract.

Skin contact: causes skin burns.

Eye contact: causes serious eye damage.

Digestive system: may cause irritation of the mucous membranes.

ATEmix = 3078 (acute toxicity, orally)

DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

Phosphoric acid (data for highly concentrated substance):

LD50: 1530 mg/kg (rat, orally) **LD50:** 2740 mg/kg (rabbit, dermal)

Very corrosive to skin. Destroys skin tissues and makes burns.

Corrosive to eyes. May cause irreversible eye damage.

One-time exposure: ingestion causes irritation of the upper respiratory tract.

Recurring exposure: dermatitis and acute respiratory infection.

Non-ionic surfactants (data for highly concentrated substance):

Data for ethoxylate alcohols C8-C18)>5-20EO):

LD50: >300-2000 mg/kg (rat, orally) **LD50:** >2000 mg/kg (rat, dermal)

Harmful after swallowing.

Contact with eyes may cause irreversible damage.

Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

Acute toxicity:

LD50: 800 mg/kg (rat, orally) (OECD 401) **LD50:** > 300-2000 mg/kg (rabbit, dermal) (OECD 404)

Causes burns on skin.

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

Phosphoric acid (data for highly concentrated substance):

 LC50:
 138 mg/l/96h
 (fish, Gumbusia affinis)

 LC50:
 3-3.25 mg/l/96h
 (fish, Lepomis macrochirus)

 EC50:
 > 100 mg/l/48h
 (daphnia, Daphnia magna)

Harmful to aqua organisms.

Non-ionic surfactants (data for highly concentrated substance):

 LC50:
 > 10-100 mg/l/96h
 (Cyprinus carpio)
 (OECD 203)

 EC50:
 > 1-10 mg/l/48h
 (Daphnia magna)
 (OECD 202)

 EC50:
 > 1-10 mg/l/72h
 (Scenedesmus subsipicatus)
 (OECD 201)

Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

 LC50:
 0.97 mg/l/96h
 (fish, Danio rerio)
 (OECD 203)

 EC50:
 0.057 mg/l/48h
 (daphnia, Daphnia magna)
 (OECD 202)

 EC50:
 0.053 mg/l/72h
 (algae, Pseudokirchneriella subcapitata)
 (OECD 201)

M factor acute = 10

12.2. Persistence and degradability:

The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

Data for the mixture ingredients:

Substance	Method	Length	Degraded percentage
Phosphoric acid	Inorganic substance	Inorganic substance	Inorganic substance
Non-ionic surfactants	OECD 301 A	28 days	> 70%
Non-ionic surfactants	OECD 301 B	28 days	> 60%
Didecyl dimethyl ammonium chloride	Closed bottle test	28 days	> 60%

12.3. Bioaccumulative potential:

Phosphoric acid (data for highly concentrated substance):

Inorganic substance.

Non-ionic surfactants (data for highly concentrated substance):

No data available.

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Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

BCF: 2.1

12.4. Mobility in soil

Phosphoric acid (data for highly concentrated substance):

Phosphoric acid is not soil absorbable. In most cases, it dissociates into PO4, 3- and H+ ions in water located inside soil pores and/or it reacts with minerals present in soil, especially with lime, iron and aluminium. Except some strictly determined circumstances (soil with acidic pH, some types of mineral soils, very high dose of phosphoric acid), phosphoric acid won't seep through soil layer to groundwater.

Non-ionic surfactants (data for highly concentrated substance):

No data available.

Didecyl dimethyl ammonium chloride (DDAC) (active substance) (data for highly concentrated substance):

No data available.

12.5. Results of PBT and vPvB assessment:

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII..

12.6. Other adverse effects:

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

RESIDUES AND WASTES:

DO NOT mix with other liquid wastes.

DO NOT empty into sewage system. Product should be totally used up according to its description.

If it's impossible to do so, dispose of this material and its container at hazardous or special waste collection point.

13.1. Waste treatment methods:

Contaminated containers should be completely emptied. Several times rinse the container promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

SECTION 14. TRANSPORT INFORMATION

TRADE NAME: GRAN DEZ 2008

14.1. UN Number: 3264

14.2. UN proper shipping name: Corrosive liquid, acidic, inorganic, N.O.S. (phosphoric acid).

14.3. Transport hazard class(es): ADR class. 8.

14.4. Packing group: III
14.5. Environmental hazards: Yes.

14.6. Special precautions for user: For more details see Sections 6 and 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

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WARNING LABELS



SECTION 15. REGULATORY INFORMATION

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

- 1) COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- 2) REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.
- 3) COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto.
- 4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
- 5) COMMISSION REGULATION (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation).
- 6) REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 March 2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents.
- 7) REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors).
- 8) 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.

15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

Phosphoric acid: A Chemical Safety Assessment has been carried out.

Non-ionic surfactants: No data available.

Didecyl dimethyl ammonium chloride: A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Information above is based on current knowledge of product in its current form.

All data are presented in order to take into account safety requirements priority and not to guarantee special properties of the product. If product usage conditions are not under manufacturer control, responsibility for safe use lies with the person that uses them. The employer is obliged to inform all employees, who have contact with the product, about the risk and safety measures specified in the data sheet. Safety data presented above were prepared based on safety characteristics of substances used by the producer to compose the product and based on regulations for handling dangerous substances and their preparation.

Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

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The full list of symbols and H phrases from Section 2 and 3:

Aquatic Acute 1 — Hazardous to the aquatic environment - Acute Hazard, category 1

- Substance/Mixture is corrosive to metals, category 1

Eye Dam. 1
Skin Corr. 1B
Acute Tox. 4

Substance/Mixture is corrosive to

Serious eye damage, category 1.

Corrosive to skin, category 1B

Acute toxicity category 1

H290 May be corrosive to metals. H302 - Harmful if swallowed.

- Causes severe skin burns and eye damage. H314

H318 - Causes serious eye damage. H400 - Very toxic to aquatic life.

More information on the product can be found on the specific technical data sheet which is available on www.tenzi.pl

Training:

Course participants should be trained about how to handle this hazardous substance, about safety and work hygiene. Drivers should also be trained and obtain proper certification in accordance with the ADR requirements.

Expiry date:

12 months from the production date (if product is stored according to the producent recommendations)

GRAN DEZ 2008 was submitted to Inspector for Chemical Substances.

Changes compared to the previous version:

- general update

Updated cards versions are now available on www.tenzi.pl

This Safety Data Sheet contains 11 pages. Changes in the content by unauthorized people is prohibited.

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