

		GR	AN DIW					
Creati	ion date	10th August 2000						
	ion date	16th November 2021	Version	2.0				
SECT	ION 1: Identification	of the substance/mixture a	ind of the company/un	ndertaking				
1.1.	Product identifier		GRAN DIW	2				
	Substance / mixture		mixture					
1.2.	<b>Relevant identified</b>	uses of the substance or m	ixture and uses advise	ed against				
	Mixture's intended use							
	High alkaline low foam cleaner for machine dishwashing							
	Mixture uses advis	ed against						
	not available							
			_					
1.3.	Details of the supplier of the safety data sheet Manufacturer							
	Name or trade	n-m-0						
	Address	name	TENZI Sp. z o.o.	Dolute 72.002				
	Address		Poland	0, Dołuje, 72-002				
	VAT Reg No		PL8512583405					
	Phone		+48 91 3119777					
	E-mail		info@tenzi.pl					
	Web address		www.tenzi.pl					
		responsible for the safety d						
	Name		technolog@tenzi.	pl				
	E-mail		technolog@tenzi.	•				
1.4.	Emergency telepho	ne number						
	European emergency							

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## **Classification of the mixture in accordance with Regulation (EC) No 1272/2008** The mixture is classified as dangerous.

Skin Corr. 1, H314 Eye Dam. 1, H318 STOT RE 2, H373 (respiratory tract) (inhalation)

Full text of all classifications and hazard statements is given in the section 16.

## Most serious adverse effects on human health and the environment

Causes serious eye damage. May cause damage to the respiratory tract through prolonged or repeated exposure if inhaled. Causes severe skin burns and eye damage.

## 2.2. Label elements



Danger

## Hazardous substances

EDTA and salts thereof sodium hydroxide

## Hazard statements

## H314 H373

Causes severe skin burns and eye damage. May cause damage to the respiratory tract through prolonged or repeated exposure if inhaled.



according to Regulation (EC) No 1907/2006 (REACH) as amended

#### **GRAN DIW** Creation date 10th August 2000 Revision date 16th November 2021 Version 2.0 **Precautionary statements** Wear protective gloves/protective clothing/eye protection/face protection. P280 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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. P310 Immediately call a POISON CENTER/doctor. P405 Store locked up.

### Supplemental information

15-<30 % EDTA and salts thereof, <5 % phosphonates

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

## 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

## Chemical characterization

Mixture of substances and additives specified below.

## Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-428-00-2 CAS: 64-02-8 EC: 200-573-9 Registration number: 01-2119486762-27- XXXX	EDTA and salts thereof	<17	Acute Tox. 4, H302+H332 Eye Dam. 1, H318 STOT RE 2, H373 (respiratory tract) (inhalation)	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27- XXXX	sodium hydroxide	<13	Met. Corr. 1, H290 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: $2 \% \le C < 5 \%$ Skin Corr. 1A, H314: $C \ge 5 \%$ Eye Irrit. 2, H319: $0,5 \% \le C < 2 \%$ Skin Irrit. 2, H315: $0,5 \% \le C < 2 \%$	

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.



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### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

## If swallowed

DO NOT INDUCE VOMITING! Even the inducted vomiting can cause complications as in case of detergents and other foaming substances.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

## If on skin

Causes severe skin burns.

## If in eyes

Causes serious eye damage. If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## **SECTION 6:** Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

## 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.

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Storage tempe	rature	min 5 °C, max 3	5 °C	

## 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set. **DNEL** 

EDTA and salts thereof

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1.5 mg/m <sup>3</sup>	Local chronic effects		SDS
sodium hydroxide	5				
Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Wark are	Inholotion	1 0 ma a /ma 3	Least shuamin offerste		CDC

consumers	exposure	value	Effect	method	Source
Workers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS
Consumers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS
DNEC					

## PNEC

EDTA and salts thereof

Route of exposure	Value	Determining method
Drinking water	2.86 mg/l	
Seawater	0.286 mg/l	
Water (intermittent release)	1.56 mg/l	
Soil (agricultural)	0.937 mg/kg	
Microorganisms in wastewater treatment plants	55.94 mg/l	

## 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

## Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

## Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer.

## **Respiratory protection**

Under regular circumstances it is not necessary.

## **Thermal hazard**

Data not available.

## Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	Characteristic for the materials used
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available



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Auto-ignition	temperature	data not available		
Decompositio	on temperature	data not available		
рН		14 (undiluted)		
Kinematic vis	scosity	data not available		
Solubility in water		soluble		
Partition coe	Partition coefficient n-octanol/water (log value)			
Vapour press	sure	data not available		
Density and/	or relative density			
Density		1,200 - 1,240 g/cm	3	
Relative vap	our density	data not available		
Particle chara	acteristics	data not available		
Form		liquid		
9.2. Other infor	mation			
not available				

## **SECTION 10: Stability and reactivity**

- 10.1. Reactivity
- not available
- 10.2. Chemical stability
- The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions

### Unknown. 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

## 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

## Acute toxicity

Based on available data the classification criteria are not met.

EDTA and salts thereof

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD50	OECD 401	1780 mg/kg		Rat (Rattus norvegicus)			SDS
Inhalation	LC50	OECD 412	>1-5 mg/l	4 hour	Rat (Rattus norvegicus)		Analogous approach	SDS

## sodium hydroxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Intraperitonea lly	LD50		40 mg/kg		Mouse			SDS
Oral	LDL0		500 mg/kg		Rabbit			SDS
Oral	TDLo		44 mg/kg		Rat (Rattus norvegicus)			SDS



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## 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.

## 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.

## Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - repeated exposure

May cause damage to the respiratory tract through prolonged or repeated exposure if inhaled.

## Aspiration hazard

Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

## not available

## SECTION 12: Ecological information

12.1. Toxicity

## Acute toxicity

Data for the mixture are not available.

EDTA and salts thereof

Parameter	Value	Time of exposure	Species	Environment	Source
LC50	>100 mg/l	96 hour	Fishes		SDS
EC50	140 mg/l	48 hour	Daphnia (Daphnia magna)		SDS
EC50	>100 mg/l	72 hour	Algae		SDS

### sodium hydroxide

Parameter	Value	Time of exposure	Species	Environment	Source
EC50	40.4 mg/l	48 hour	Aquatic invertebrates (Ceriodaphnia dubia)		SDS
EC₅o	22 mg/l	15 min	Microorganisms (Photobacterium phosphoreum)		SDS



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## **Chronic toxicity**

EDTA and salts thereof

Parameter	Method	Value	Time of exposure	Species	Environm ent	Determining method	Source
NOEC	OECD 210	>25.7 mg/l	35 day	Fishes		Analogous approach	SDS
NOEC		>25 mg/l	21 day	Daphnia (Daphnia magna)			SDS

## 12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

## 12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

## 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

## 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

Data not available.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors \*

## Packaging waste type code

15 01 02 plastic packaging

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## **SECTION 14: Transport information**

## 14.1. UN number or ID number

UN 1719

## 14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)

## 14.3. Transport hazard class(es)

8 Corrosive substances

## 14.4. Packing group

II - substances presenting medium danger



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14.5.	Environmental ha	azards					
	No						
14.6.	Special precautio	ns for user					
	not available						
14.7.	Maritime transport in bulk according to IMO instruments						
	not relevant						
	Additional inform	ation					
	Hazard identif	ication No.					
	UN number		1719				
	Safety signs		8				

## **SECTION 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 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

#### 15.2. **Chemical safety assessment**

Chemical safety assessment has not been carried out for the mixture. Sodium hydroxide: the manufacturer has performed a chemical safety assessment EDTA and salts thereof: the manufacturer has performed a chemical safety assessment

## **SECTION 16: Other information**

A list of standard risk p	phrases used in the safety data sheet
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to the respiratory tract through prolonged or repeated exposure if inhaled.
H302+H332	Harmful if swallowed or if inhaled.
Guidelines for safe han	dling used in the safety data sheet
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
Other important inform	nation about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.



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CLP DNEL EC	Regulation (EC) No substance and mixt Derived no-effect le Identification code f	1272/2008 on classifica ures	
DNEL EC	substance and mixt Derived no-effect le Identification code f	ures	Alexandra and an alexandra at
EC	Identification code f		ition, labelling and packaging of
		vei	
EC50		or each substance listed	
			ected 50% of the population
EINECS	European Inventory	of Existing Commercial	Chemical Substances
EmS	Emergency plan		
EU	European Union		
EuPCS		ategorisation System	
IATA	International Air Tra	-	
IBC			nd Equipment of Ships Carrying
ICAO	Dangerous Chemica		
ICAO		viation Organization	
IMDG		me Dangerous Goods	
INCI		nclature of Cosmetic Ing	-
ISO IUPAC	-	ization for Standardizati	
		of Pure and Applied Che	
LC50	population	T OF A SUBSTANCE IN WHIC	h it can be expected death of 50% of th
LD₅o	population		be expected death of 50% of the
log Kow	Octanol-water parti		
MARPOL			n of Pollution from Ships
NOEC	No observed effect		
OEL	Occupational Expos		
PBT	Persistent, Bioaccur		
PNEC	Predicted no-effect	concentration	
ppm	Parts per million		
REACH	-		Restriction of Chemicals
RID	_	ransport of dangerous g	
UN	Four-figure identific Model Regulations	ation number of the sub	ostance or article taken from the UN
UVCB	Substances of unkn biological materials	own or variable compos	sition, complex reaction products or
VOC	Volatile organic com		
vPvB	Very Persistent and	very Bioaccumulative	
Acute Tox.	Acute toxicity		
Eye Dam.	Serious eye damage	9	
Eye Irrit.	Eye irritation		
Met. Corr.	Corrosive to metals		
Skin Corr.	Skin corrosion		
Skin Irrit.	Skin irritation		
STOT RE		n toxicity - repeated exp	posure
Training guideline			
Inform the personne ways of handling the <b>Recommended res</b>	e product.	s of use, mandatory pro	ptective equipment, first aid and prohibi

Information about data sources used to compile the Safety Data Sheet



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# GRAN DIW Creation date 10th August 2000 Revision date 16th November 2021 Version 2.0 REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers. The changes (which information has been added, deleted or modified)

General update

### More information

Classification procedure - calculation method.

## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

