Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 5/16/2023 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Product form : Mixture MACHINE DISHWASH DETERGENT Product name : : PN219 Product code 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses : Professional use Main use category Use of the substance/mixture : Cleaning/washing agents and additives 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet F T G I td Drum House Drum Industrial Estate DH2 1SR Birtley - Durham T 0191 4111777 - F 0191 4111888 1.4. Emergency telephone number No additional information available **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin corrosion/irritation, Category 1 H314 Serious eye damage/eye irritation, Category 1 H318 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Causes severe skin burns and eye damage. Causes serious eye damage. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 Signal word (CLP) : Danger Contains : sodium hydroxide; caustic soda Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage. Precautionary statements (CLP) : P280 - Wear protective clothing, eye protection, face protection, protective gloves. 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 . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetrasodium (1-hydroxyethylidene)bisphosphonic acid	CAS-No.: 3794-83-0 EC-No.: 223-267-7	5 – 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	5 – 10	Skin Corr. 1A, H314

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6	(0.5 ≤C < 2) Skin Irrit. 2, H315 (0.5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	Burns.Serious damage to eyes.Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION O. Dh	ysical and chemica	Inconartice
SCOTION 5. FI	ysical and chemica	i properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow.
Odour	:	No data available
Odour threshold	:	No data available
рН	:	> 11.5
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available

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Density	: 1.12
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Not classifiedNot classifiedNot classified
Skin corrosion/irritation	: Causes severe skin burns. pH: > 11.5
Serious eye damage/irritation	: Causes serious eye damage. pH: > 11.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Before neutralisation, the product may represent a danger to aquatic organisms.

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Hazardous to the aquatic environment, short–term : Not classified (acute)
Hazardous to the aquatic environment, long-term : Not classified (chronic)
Not rapidly degradable
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
ADR		IATA	AUN	RID
14.1. UN number				
UN 1824	UN 1824	Not regulated	UN 1824	UN 1824
14.2. UN proper shippin	g name			
SODIUM HYDROXIDE	SODIUM HYDROXIDE	Not regulated	SODIUM HYDROXIDE	SODIUM HYDROXIDE
SOLUTION	SOLUTION		SOLUTION	SOLUTION
Transport document descr	iption			
UN 1824 SODIUM	UN 1824 SODIUM	Not regulated	UN 1824 SODIUM	UN 1824 SODIUM
HYDROXIDE SOLUTION,	HYDROXIDE SOLUTION,		HYDROXIDE SOLUTION,	HYDROXIDE SOLUTION,
8, II, (E)	8, II		8, II	8, II
14.3. Transport hazard o	class(es)			
8	8	Not regulated	8	8
R R R R R R R R R R R R R R R R R R R	A Contraction of the second se	Not regulated	B	R R R R R R R R R R R R R R R R R R R
14.4. Packing group				
	II	Not regulated	II	II

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental haz	ards			
Dangerous for the	Dangerous for the	Not regulated	Dangerous for the	Dangerous for the
environment: No	environment: No		environment: No	environment: No
	Marine pollutant: No			
No supplementary information	n available			
14.6. Special precautions	s for user			
Overland transport				
Classification code (ADR)	: C5			
imited quantities (ADR)	: 11			
Excepted quantities (ADR)	: E2			
Packing instructions (ADR)		01, IBC02		
Mixed packing provisions (ADI	,	15		
Portable tank and bulk contain	. ,	^		
Portable tank and bulk contain	ier special provisions : TP:	2		
ADR) Fank code (ADR)	: L4E	RN		
Tank code (ADR) Fank special provisions (ADR)				
/ehicle for tank carriage	: AT	72		
Fransport category (ADR)	: 2			
Hazard identification number (
Drange plates		0.0		
		80		
		1004		
		1824		
Funnel restriction code (ADR)	: E			
EAC code	: 2R			
Fransport by sea				
Limited quantities (IMDG)	: 1L			
Excepted quantities (IMDG)		: E2		
Packing instructions (IMDG)				
BC packing instructions (IMD) Fank instructions (IMDG)	G) : IBC : T7	JUZ		
Tank Instructions (IMDG)		2		
EmS-No. (Fire)	•) : TP. : F-A			
EmS-No. (Spillage)	: S-E			
Stowage category (IMDG)	: A	,		
Segregation (IMDG)		G18, SG35		
Properties and observations (I		: Colourless liquid. Colourless liquid. Reacts with ammonium salts, evolving ammonia		
		gas. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids.		
Air transport				
Not regulated				
nland waterway transport				
Classification code (ADN)	: C5			
imited quantities (ADN)	: 1L			
Excepted quantities (ADN)	: E2			
Carriage permitted (ADN)	: T			
Equipment required (ADN)	: PP	, EP		
Number of blue cones/lights (A	ADN) : 0			
Rail transport				
Classification code (RID)	: C5			
_imited quantities (RID)	: 1L			
Excepted quantities (RID)				

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Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	: P001, IBC02 : MP15 : T7 : TP2
Tank codes for RID tanks (RID)	: L4BN
Special provisions for RID tanks (RID)	: TU42
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

- Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
- Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen –	: None of the components are listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
Switzerland	
Storage class (LK)	: LK 8 - Corrosive materials

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	

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Abbreviations and acronyms:		
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	

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Full text of H- and EUH-statements:	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.