Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No. : 823153
V001.0

Oust Dishwasher & Wasching Machines

Revision: 29.11.2023
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Replaces version from: -

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Oust Dishwasher & Wasching Machines

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
special detergent

1.3. Details of the supplier of the safety data sheet
Henkel Ltd.
Wood Lane End, Hemel Hempstead
HP2 Hertfordshire
4RQ
Phone: +44 (0) 1442 278000

consumer.response@henkel.com

1.4. Emergency telephone number
0800 051 4433 (Monday to Friday from 9.00 to 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):
Skin Corr. 1
H314 Causes severe skin burns and eye damage.
Eye Dam. 1
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Danger

Hazard statement: H314 Causes severe skin burns and eye damage.

Precautionary statement: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/eye protection.
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.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulation.

Contains:
Sulfamic acid,
Na-silicate 2.0

2.3. Other hazards

Use child-resistant fastening.
tactile warning of danger

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Sulfamic acid 5329-14-6 226-218-8 01-2119488633-28	>= 10- < 20 %	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412		
Na-silicate 2.0 1344-09-8 215-687-4 01-2119448725-31	>= 1- < 5 %	Skin Irrit. 2, Dermal, H315 Eye Dam. 1, H318 STOT SE 3, Inhalation, H335		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Do not induce vomiting, seek medical advice immediately.
Rinse mouth with water, (only if the person is conscious).

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

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Moderate to strong irritation of the skin (redness, swelling, burning), severe burns also possible.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

After ingestion: Corrosivity may cause immediately pain, burning, swelling, and redness in mouth and throat. Nausea and vomiting may occur. Risk of serious damage to the mouth, throat and esophagus.

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

After inhalation: No special action.
After skin contact: No special action.
After eye contact: No special action.
After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).
After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

Extinguishing media which must not be used for safety reasons:
None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.
Ensure adequate ventilation.
If large amounts are released contact the fire service.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special measures required if used properly.

Hygiene measures:

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

7.2. Conditions for safe storage, including any incompatibilities

Store dry at between +5 and +40°C.
Consider national regulations.

7.3. Specific end use(s)

special detergent

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for
Great Britain

Contains no components with occupational exposure limit values.
Attention: general dust limit value 6 mg/m3 (fine dust concentration)

8.2. Exposure controls

Respiratory protection:
If dust is produced wear P2 mask.

Hand protection:
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	powder free-flowing white
Odor	fresh
Physical state	solid
Melting point	Currently under determination
Initial boiling point	Not applicable, Product is a solid.
Initial boiling point	Not applicable, Product is a solid.

Flammability	The product is not flammable.
Flammability	The product is not flammable.
Explosive limits	Not applicable, Product is a solid.
Explosive limits	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
Auto-ignition temperature	Not applicable, Product is a solid.
Auto-ignition temperature	Not applicable, Product is a solid.
Decomposition temperature	Mixture is not self-reactive and does not decompose or explode when used as intended
pH (; Conc.: 1 % product)	1,1 - 2,7 pH/aqueous solutions, dispersions/pH meter::97001401
Viscosity (kinematic)	Not applicable, Product is a solid.
Viscosity (kinematic)	Not applicable, Product is a solid.
Solubility (qualitative)	soluble in water
Partition coefficient: n-octanol/water	Not applicable, product is an ionic mixture
Vapour pressure	Not applicable, Product is a solid.
Vapour pressure	Not applicable, Product is a solid.
Bulk density	1.250 - 1.450 g/l Bulk density/powders, extracts, granulates/gravimetric::97000801
Relative vapour density:	Not applicable, Product is a solid.
Relative vapour density:	Not applicable, Product is a solid.
Particle characteristics	Currently under determination

9.2. Other information
Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with strong alkaline and/or hypochlorite-containing cleansers / desinfectants: Production of heat and/or chlorine gas

10.2. Chemical stability
Stable under normal conditions of temperature and pressure.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
Containers and/or surfaces made of acid-sensitive materials, e.g. marble

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sulfamic acid 5329-14-6	LD50	2.065 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Na-silicate 2.0 1344-09-8	LD50	3.400 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sulfamic acid 5329-14-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Na-silicate 2.0 1344-09-8	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sulfamic acid 5329-14-6	irritating	4 h	rabbit	Patch Test
Na-silicate 2.0 1344-09-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sulfamic acid 5329-14-6	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Na-silicate 2.0 1344-09-8	highly irritating		rabbit	In vitro

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Na-silicate 2.0 1344-09-8	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sulfamic acid 5329-14-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Na-silicate 2.0 1344-09-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Na-silicate 2.0 1344-09-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Na-silicate 2.0 1344-09-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Na-silicate 2.0 1344-09-8	negative	oral: feed		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Na-silicate 2.0 1344-09-8	NOAEL P > 159 mg/kg	multigeneration study	oral: drinking water	rat	not specified

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Sulfamic acid 5329-14-6	NOAEL 10000 ppm	oral: feed	90 days Daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Na-silicate 2.0 1344-09-8	NOAEL 2.400 mg/kg	oral: feed	4 w daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfamic acid 5329-14-6	LC50	70,3 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfamic acid 5329-14-6	NOEC	60 mg/l	34 d	Danio rerio	OECD Guideline 210 (fish early lite stage toxicity test)
Na-silicate 2.0 1344-09-8	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfamic acid 5329-14-6	EC50	71,6 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Na-silicate 2.0 1344-09-8	EC50	1.700 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfamic acid 5329-14-6	NOEC	19 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfamic acid 5329-14-6	EC50	48 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfamic acid 5329-14-6	EC10	29,5 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Na-silicate 2.0 1344-09-8	EC50	> 345,4 mg/l	72 h	Desmodesmus subspicatus	DIN 38412-09

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sulfamic acid 5329-14-6	EC50	> 200 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Does not bioaccumulate.

No substance data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Sulfamic acid 5329-14-6	0,1	20 °C	EPA OPPTS 830.7550 (Partition Coefficient, n-octanol / H2O, Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Sulfamic acid 5329-14-6	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
Na-silicate 2.0 1344-09-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects
Other adverse effects of this product for the environment are not known to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
Only completely empty containers are to be disposed of as recoverable materials.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	2967
RID	2967
ADN	2967
IMDG	2967
IATA	2967

14.2. UN proper shipping name

ADR	SULPHAMIC ACID (mixture)
RID	SULPHAMIC ACID (mixture)
ADN	SULPHAMIC ACID (mixture)
IMDG	SULPHAMIC ACID (mixture)
IATA	Sulphamic acid (mixture)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable

	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. **14.7. Maritime transport in bulk according to IMO instruments**

not applicable

SECTION 15: Regulatory information

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

Declaration of ingredients according to Detergent Regulation 648/2004/EC

< 5 %	non-ionic surfactants phosphonates
Further ingredients	Perfumes

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s): 1-16