

SAFETY DATA SHEET

Product name: Tray cleaner Page: 1/12
Revision: Print date: 2022-12-28
Product No.: SDS-ID: EU-EN/1.0

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

1.1. Product identifier

Product name: Tray cleaner

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

Application: Cleaning agent.
Dissolves alginate

Uses advised against: None in normal conditions of use.

1.3. Details of the supplier of the safety data sheet

Supplier: Directa AB
P.O. Box 723
SE-194 27 Upplands Väsby
Tel:+46 850650575
Fax:+46 85903060
info@directadental.com

1.4. Emergency telephone number

Emergency telephone: National Poison Control Centres are available in Member Countries.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: Eye Irrit. 2;H319

2.2. Label elements



Warning

H319 Causes serious eye irritation.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
>30	497-19-8	207-838-8	01-2119485498-19	Sodium carbonate	Eye Irrit. 2;H319	
>30	7758-29-4	231-838-7	01-2119430450-54	Pentasodium triphosphate	-	
<1	-	-	02-2119552554-37	Fatty alcohol alkoxyate, polymer	Skin Irrit. 2;H315 Eye Irrit. 2;H319	

References: The full text for all hazard statements is displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

<u>Inhalation:</u>	Move into fresh air and keep at rest. Rinse nose and mouth with water.
<u>Skin contact:</u>	Remove contaminated clothes and rinse skin thoroughly with water. Contact physician if irritation continues.
<u>Eye contact:</u>	Immediately flush with plenty of lukewarm water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.
<u>Ingestion:</u>	Drink a few glasses of water or milk. Do not induce vomiting. Contact physician if larger quantity has been consumed.

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

<u>Symptoms/effects:</u>	Inhalation of dust may irritate the respiratory system. Repeated exposure may cause skin dryness or cracking. Irritating and may cause redness and pain. May cause irritation to the mouth and throat. May irritate and cause stomach pain, vomiting and diarrhoea.
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4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards: During fire, gases hazardous to health may be formed.
Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into water courses or onto the ground. Inform Authorities if large amounts are involved.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep up and place into an appropriate container. Avoid spreading dust.

6.4. Reference to other sections

References: For personal protection, see section 8.
For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes. Observe good chemical hygiene practices. Avoid generating excess dust.

Technical measures: Keep the workplace clean. Use work methods which minimise dust production.

Technical precautions: Use mechanical ventilation in case of handling which causes formation of dust.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store at moderate temperatures in dry, well ventilated area.

7.3. Specific end use(s)

Specific use(s): Cleaning agent.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

Please note that there may be national occupational exposure limits.

DNEL/PNEC:

Sodium carbonate:

DNEL long-term inhalative (local, workers): 10 mg/m³

8.2. Exposure controls

Engineering measures:

Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Personal protection:

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment:

Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P3).

Hand protection:

Risk of contact: Wear protective gloves.

Nitrile rubber (NBR) - 0.4 mm thickness.

Breakthrough time: >480 min.

The most suitable glove must be chosen in collaboration with the supplier of gloves, who can inform about the breakthrough time of the glove material.

Eye protection:

Wear dust resistant safety goggles where there is danger of eye contact.

Skin protection:

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures:

Wash hands after handling. Wash contaminated clothing before reuse.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Physical state:</u>	Powder.
<u>Colour:</u>	White.
<u>Odour:</u>	Unscented
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	pH-value, diluted solution ~ 11 (1%)
<u>Melting point / freezing point:</u>	851°C - Sodium carbonate
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not available.
<u>Evaporation rate:</u>	Not relevant.
<u>Flammability (solid, gas):</u>	Not flammable
<u>Explosion limits:</u>	Not available.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	800 kg/m ³
<u>Solubility:</u>	Completely soluble in water.
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Non-explosive
<u>Oxidising properties:</u>	Non-oxidizing
<u>9.2. Other information</u>	
<u>Other data:</u>	Not available.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Not reactive.

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

10.4. Conditions to avoid

Conditions/materials to avoid: Moisture, heating and strong oxidizing substances.

10.5. Incompatible materials

Incompatible materials: Sodium carbonate: Reacts violently with sulfuric acid (carbon dioxide released), phosphorus pentoxide, fluorine, lithium, 2,4,6-trinitrotoluen, trichlorethylene and aluminum.

10.6. Hazardous decomposition products

Hazardous decomposition products: None under normal conditions.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

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. Germ cell mutagenicity (In vitro): Negative.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met. Sodium carbonate: By mouth (feeding), 10 days, different species, 179 mg / kg, showed no teratogenic effects in animal experiments.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Dust may irritate throat and respiratory system and cause coughing.

Skin contact: Prolonged contact may cause redness and irritation.

Eye contact: May irritate and cause redness and pain.

Ingestion: May cause irritation to the mouth and throat. Symptoms are irritation of the digestive tract, nausea, diarrhoea and vomiting.

Specific effects: May cause sensitisation by skin contact.

Toxicological data:

LD50 (oral, rat):
Sodium carbonate: 2800 mg/kg
Pentasodium triphosphate: >2000 mg/kg
Fatty alcohol alkoxyolate, polymer: >2000 mg/kg

LD50 (dermal rabbit):
Sodium carbonate: >2000 mg/kg
Pentasodium triphosphate: >4640 mg/kg

LC50 (inhalation, rat):
Sodium carbonate: 2.3 mg/l

11.2. Information on other hazards

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: The ecotoxicity of the product has not been stated.

12.2. Persistence and degradability

Degradability: The product consists mainly of inorganic compounds, which are not biodegradable.

Fatty alcohol alkoxyate, polymer:
Elimination: $\geq 90\%$ (OECD Guideline 301E)
BOD28: $>60\%$ (OECD Guideline 301F)

12.3. Bioaccumulative potential

Bioaccumulative potential: Pentasodium triphosphate: Will not bio-accumulate.
Sodium carbonate: Will not bio-accumulate.
Fatty alcohol alkoxyate, polymer: Not expected.

12.4. Mobility in soil

Mobility: Pentasodium triphosphate: The product is soluble in water.
Sodium carbonate: The product is soluble in water.
Fatty alcohol alkoxyate, polymer: May adsorb to soil particles.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects: The product is alkaline and may increase the pH value locally when discharged to water. pH 9 is toxic to fish. pH > 8.5 has a harmful effect in algae. Available environmental data on raw materials indicate that only major local emissions can pose a risk of poisoning aquatic life organisms. The product contains phosphate and may therefore contribute to the eutrophication of watercourses if a wastewater treatment plant is bypassed.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 20 01 29

Contaminated packaging: Residues are classified as hazardous waste.

Empty packaging: Empty packaging is not considered hazardous.

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

14.1. UN number

UN-No: -

14.2. UN proper shipping name

Proper Shipping Name: -

14.3. Transport hazard class(es)

Class: -

14.4. Packing group

PG: -

14.5. Environmental hazards

Environmentally Hazardous substance: -

14.6. Special precautions for user

Special precautions: None known.

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

Transport in bulk: This product is not intended for transport in bulk.

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SECTION 15: REGULATORY INFORMATION

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

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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, with amendments.

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 with amendments.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, with amendments.

Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work, with amendments.

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work, with amendments.

Directive 2009/148/EC of the European Parliament and of the Council of 30 November 2009 on the protection of workers from the risks related to exposure to asbestos at work, with amendments.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents, with amendments.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, with amendments.

2014/955/EC: Commission Decision of 18 December 2014 amending Decision 2000/532/EC as regards the list of wastes.

15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Abbreviations and acronyms used in the safety data sheet: CSA = Chemical Safety Assessment.
DNEL = Derived No Effect Level.
LC50 = Lethal Concentration 50%.
LD50 = Lethal Dose 50%.
PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

Wording of H-statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
