

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

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

1.1 Product identifier

Trade name Tray Cleaner

Article No. 734690

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

Use Detergent

Not suitable for use in No dissuasions as long as the product is used to its purpose.

1.3 Details of the supplier of the safety data sheet

Supplier DIRECTA AB

Street address Box 723, Finvids väg 8

SE- 194 27 Upplands Väsby

Telephone +46 8 506 505 75

Fax +46 8 590 306 30

Email info@directadental.com

1.4 Emergency telephone number

Emergency phone number Call 112 to actual poisoning incidents and requests Poison - around the clock.

Available outside office hours Yes

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 67/548/EEC and 1999/45/EC

Danger class Xi - Irritant

Hazard phrases R36 - Irritating to eyes.

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Eye irritation, hazard category 2

Hazard statements H319

Description The product has been classified by the relevant national laws, 2005:7 and Regulation (EC) No 1272/2008.

For more information on the physical-chemical effects and the health and environmental effects, see section 9-12 of the SDS.

2.2 Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

Pictogram



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

Precaution statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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

The product and its ingredients are not expected to be PBT and/or vPvB.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	R-pharse H-pharse
Sodium Carbonate	497-19-8 207-838-8 01-2119485498-19	>30%	Xi Eye Irrit. 2	R36 H319
Sodium Tripolyphosphate	7758-29-4 231-838-7 01-2119430450-54	>30%	- -	- -
Fatty alcohol alkoxyate, polymer	- - 02-2119552554-37-	<1%	Xn Aquatic Chronic 3, Eye Irrit. 2, Acute Tox. 4 - oral	R22, R36/38 H302, H319, H412

Substance additional information

Explanation of the Hazard Statements and R-phrases listed in Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

No special protective equipment is needed for those providing first aid.

Inhalation	Fresh air. Rinse nose and mouth with water.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. If symptoms persist, call a physician.
Eye contact	Flush immediately with plenty of tempered water for at least 15 minutes. If symptoms persists (eg, stinging, pain, and impaired vision) continue to rinse and seek medical attention or hospitalization.
Ingestion	Drink a couple of glasses of milk or water. Seek medical advice if an appreciable amount of the product has been eaten. Show the label or the packaging. Do not induce vomiting!

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation of dust may cause sneezing and possibly burning in the nose and throat.
Skin contact	Prolonged/repeated contact may cause skin dryness or cracking.
Eye contact	Causes irritation, excessive burning and pain.
Ingestion	May cause burning in the mouth and throat. May cause nausea, vomiting, diarrhea and abdominal pain.

4.3 Indication of any immediate medical attention and special treatment needed

Medical attention is needed if discomfort after eye contact or if a significant quantity has been swallowed.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Choose extinguishing media depending on what is burning. Foam, powder or carbon dioxide.
-------------------------------------	--

Unsuitable extinguishing media	None known.
---------------------------------------	-------------

5.2 Special hazards arising from the substance or mixture

CO and CO₂ may be formed in case of fire.

5.3 Advice for firefighters

Special protective equipment for fire-fighters	Use gas-tight protective clothing and respiratory protection that works independently of the ambient air.
---	---

Other

Measures in case of fire:	Move container from fire.
----------------------------------	---------------------------

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Information regarding appropriate equipment see section 8.

6.2 Environmental precautions

Prevent significant amounts of the product from entering streams, groundwater or wastewater. Small amounts may be flushed away with water.

6.3 Methods and material for containment and cleaning up

CONTAINMENT: Collect the product and avoid creating dust, move to an available container.

CLEANUP: Flush with plenty of water.

6.4 Reference to other sections

Reference to Section 8 for protective equipment and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions	Product should be stored in sealed original containers. Keep out of reach of children. Eyewash facility should be in the workplace. Provide adequate ventilation.
--	---

General hygiene	Avoid spillages, as well as contact with the skin and eyes. Observe good industrial hygiene and use appropriate protective equipment. Not drink, eat or smoke while handling and use. Wash hands before breaks and at the end of workday.
------------------------	--

7.2 Conditions for safe storage, including any incompatibilities

The product is not flammable. The product should be stored in sealed original containers in a cool, dry place. Keep in a well-ventilated place.

7.3 Specific end use(s)

Detergent

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits	DNEL: Sodium carbonate: Workers Long-term exposure - local effects, inhalation: 10 mg/m3
------------------------	---

8.2 Exposure controls

Technical precaution measures	Provide adequate ventilation. Protective equipment should be available. Do not breathe dust. Avoid skin / eye contact.
Eye / face protection	Wear goggles or face shield.
Safety gloves	Not required in normal use but recommended immediately if the user comes into prolonged/repeated contact with the product. Protective Gloves: Nitrile rubber / Nitrile latex (Breakthrough time: > = 480 min, Material thickness: 0.35 mm) or butyl rubber (Breakthrough time: > = 480 min, Material thickness: 0.5 mm)
Other skin protection	Suitable protective clothing.
Respiratory protection	Not needed during normal usage.
Thermal hazards	CO and CO2 may be formed during combustion.
Environmental exposure controls	To limit the environmental exposure of the product, the product must be disposed of or incinerated in accordance with local regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour	Not applicable
Appearance, physical state	Powder, white
Auto-ignition temperature	The product is not self-ignitable.
Bulk density	Approx 800 kg/m3
Decomposition temperature	Not applicable
Evaporation rate	Sodium carbonate: 0
Explosive properties	The product is not explosive.
Flammability (solid, gas)	The product is not flammable.
Flash point	Sodium carbonate: Not applicable, inorganic compound.
Initial boiling point and boiling range	Sodium carbonate: Not analyzed because of its high melting point.
Melting point / freezing point	Sodium carbonate: 851°C
Odour	Unscented
Odour threshold	Not applicable
Oxidising properties	The product has no oxidizing properties.
Partition coefficient: n-octanol / water	Sodium carbonate: Not applicable, inorganic compound.
pH value	Ca. 11 (1% solution)
Relative density	Not applicable
Solubility	Easily soluble in water.
Upper / lower flammability or explosive limits	Not applicable
Upper / lower flammability or explosive limits:	The product is not flammable.

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

Vapour density	Not applicable
Vapour pressure	Sodium carbonate: Not analyzed because of its high melting point.
Viscosity	Not applicable

9.2 Other information

No other information to add.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No known reactions to the product itself.

10.4 Conditions to avoid

Protect the product from moisture and very high temperatures.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

CO and CO₂ may be formed during combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There are no toxicological data on the product, only on the ingredients.

Acute toxicity	Not applicable
Irritation	Can cause irritation to eyes.
Corrosive effects	No known corrosive effects of the product.
Sensitisation	No data available.
Mutagenicity	Sodium carbonate: In vitro tests did not show mutagenic effects.
Carcinogenicity	No data available.
Repeated dose toxicity	No data available.
Reproductive toxicity	Sodium carbonate: oral (feeding), 10 days, different species, 179 mg/kg, did not show teratogenic effects in animal experiments.
LD50 Oral	LD50(Sodium tripolyphosphate): >2000 mg/kg (rat)(OECD TG 401) LD50(Sodium carbonate): 2800 mg/kg (rat) LD50 (Fatty alcohol alkoxylate, polymer):> 2000 mg / kg (rat)
LD50 Dermal	LD50(Sodium carbonate): >2000 mg/kg (rabbit) LD50(Sodium tripolyphosphate): >4640 mg/kg (rabbit)
LC50 Inhalation	LC50(2h)(Sodium Carbonate): 2.3 mg/l (rat)
Toxicity in case of inhalation	Inhalation of dust may cause sneezing and possibly burning in the nose and throat.
Toxicity in case of skin contact	Prolonged/repeated contact may cause skin dryness or cracking.

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

Toxicity in case of eye contact	Causes irritation, excessive burning and pain.
Toxicity in case of ingestion	May cause burning in the mouth and throat. May cause nausea, vomiting, diarrhea and abdominal pain.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

There are no ecotoxicological data on the product, only on the ingredients.

Acute fish toxicity	LC50(96h)(Sodium Carbonate) 300 mg/l (Lepomis macrochirus) LC50(96h)(Fatty alcohol ethoxylate, polymer): >1-10 mg/l (Leuciscus idus)
Acute algae toxicity	LC50(4d)(Sodium tripolyphosphate): 160 mg/l (Desmodesmus subspicatus) IC50(96h)(Sodium Carbonate): >2420 mg/l
Acute crustacean toxicity	EC50(48h)(Sodium tripolyphosphate): >100 mg/l (Daphnia magna) LC50(48h)(Sodium Carbonate): 200-227 mg/l (Ceriodaphnia sp.) EC50(48h)(Fatty alcohol alkoxylate, polymer): 1-10 mg/l (aquatic invertebrates) LC0(Fatty alcohol alkoxylate, polymer): 1-10 mg/l (aquatic invertebrates)

12.2 Persistence and degradability

Sodium Tripolyphosphate:

Criteria for biodegradability are not applicable to inorganic compounds.

Fatty alcohol alkoxylate, polymer:

Elimination: $\geq 90\%$ Vismutaktiv substance (mod OECD 301E)

$>60\%$ BOD from TOD (28d) (OECD Guideline 301F). Readily biodegradable.

12.3 Bioaccumulative potential

Sodium metasilicate pentahydrate:

The product is not bioaccumulating.

Sodium carbonate:

Not bioaccumulative.

Fatty alcohol alkoxylate, polymer:

Accumulation in organisms is not expected.

12.4 Mobility in soil

Mobility	Sodium Tripolyphosphate: Soluble in water. Sodium carbonate: Soluble in water. Fatty alcohol alkoxylate, polymer: Does not evaporate into the atmosphere from the surface. Adsorption to solid ground is possible.
-----------------	---

12.5 Results of PBT and vPvB assessment

The product and its agents are not expected to be PBT and/or vPvB.

12.6 Other adverse effects

The product is alkaline and may raise the pH locally, if discharged into water. pH 9 is toxic to fish. pH >8.5 has a detrimental effect on algae. Available data on raw materials suggests that only large local emissions may pose a risk of poisoning of aquatic organisms. The product contains phosphate and may thus contribute to the eutrophication of water bodies, if sewage water does not go out through municipal treatment plants

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations

Leave for destruction according to local regulations.

Emptying:

When the product is finished, leave the packaging for recycling.

If spillage or waste cannot be recycled in-house, contact an approved, licensed contractor.

Packaging

Manage packaging in the same manner as the product.

Other

Waste code (EWC) 07 06 99

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

The product is not classified as environmentally hazardous.

14.6 Special precautions for user

No special measures are necessary.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The load is not intended for bulk transport.

SECTION 15. REGULATORY INFORMATION

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

EU regulations

European Parliament and Council Regulation (EC) No 1907/2006 of 18 December 2006 concerning the Registration , Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency , amending Directive 1999/45/EC . 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/EEC and 2000/21/EC , as amended. Responsibility for managing the risks of substances should lie with the natural or legal persons that manufactures, imports or uses these substances, or who places the products on the market. Information about the application of this Regulation shall be examined by all of the above. Customer shall comply with the instructions followed by the SDS which the manufacturer and the user of these substances developed to assess risks.

Regulation (EC) No 648/2004 of the European Parliament and the council of 31 March 2004 on detergents. Customer shall only use detergents that contain biodegradable surfactants.

SAFETY DATA SHEET

Tray Cleaner

Issued: 2015-07-01

National regulations

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) (CHIP4). When handling the product, the customer must follow the safety data sheet classification and labeling.

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16. OTHER INFORMATION

Changes to previous revision

SDS from 2011-04-26 for the product has been modified in the following paragraphs: 2, 3, 6, 11, 12, 13, 16, with all of its subheadings.

References to key literature and data sources

This information is based on safety data from the ingredients.

Evaluation methods for classification

The product has been classified by the relevant national laws, 2005:7 and Regulation (EC) No 1272/2008.

Phrase meaning

Xi - Irritant

Xn - Harmful

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

Eye Irrit. 2 - Eye irritation, hazard category 2

R22 - Harmful if swallowed.

R36 - Irritating to eyes.

R36/38 - Irritating to eyes and skin.

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.