

Dip-it Plus**Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : Dip-it Plus
Product code : 111068E
Use of the Substance/Mixture : Presoak
Substance type: : Mixture

For professional users only.

Product dilution information : No dilution information provided.

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

Identified uses : Dishwash product. Manual process
Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.
PO Box 11; Winnington Avenue
Northwich, Cheshire, United Kingdom CW8 4DX
+ 44 (0)1606 74488
ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:
Northwich: +44 (0)1606 74488
Healthcare Leeds: +44 (0)113 232 2480
Healthcare Swansea: +44 (0)1235 239670
Poison Information Centre telephone number : Not Available

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Version : 1.0

Section: 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

| | |
|--|------|
| Skin corrosion, Category 1A | H314 |
| Serious eye damage, Category 1 | H318 |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335 |

Dip-it Plus

The classification of this product is based only on its extreme pH value (in accordance with current European legislation).

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H314
H335

Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements :

Prevention:

P260a
P280

Do not breathe dusts or mists.
Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

Hazardous components which must be listed on the label:

Sodium carbonate peroxyhydrate
sodium metasilicate

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

| Chemical Name | CAS-No. EC-No. REACH No. | ClassificationREGULATION (EC) No 1272/2008 | Concentration: [%] |
|--------------------------------|---|---|-----------------------|
| Sodium Carbonate | 497-19-8 207-838-8 01-2119485498-19 | Eye irritation Category 2; H319 | >= 30 - < 50 |
| Sodium carbonate peroxyhydrate | 15630-89-4 239-707-6 01-2119457268-30 | Oxidizing solids Category 3; H272 Acute toxicity Category 4; H302 Serious eye damage Category 1; H318 | >= 20 - < 25 |
| sodium metasilicate | 6834-92-0 | Skin corrosion Category 1B; H314 | >= 20 - < 25 |

Dip-it Plus

| | | | |
|---|-------------------------------|--|------------------|
| | 229-912-9 01-2119449811-37 | Specific target organ toxicity - single exposure Category 3; H335 | |
| Fattyalcohol ethoxylates =/ \leq C15 and =/ \leq 5EO | 68213-23-0 500-201-8 | Acute toxicity Category 4; H302 Eye irritation Category 2; H319 | $\geq 1 - < 2.5$ |

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NO_x)
Sulphur oxides
Oxides of phosphorus

5.3 Advice for firefighters

- Special protective equipment : Use personal protective equipment.

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for firefighters

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 40 °C

7.3 Specific end uses

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Specific use(s) : Dishwash product. Manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

| | | |
|--|---|--|
| Sodium Carbonate | : | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 10 mg/m3 |
| | | End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 10 mg/m3 |
| sodium metasilicate | : | End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects Value: 1.49 mg/kg |
| | | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 6.22 mg/m3 |
| Fattyalcohol ethoxylates =/< C15 and =/< 5EO | : | End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects |
| | | End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 294 mg/m3 |

PNEC

| | | |
|--|---|---|
| sodium metasilicate | : | Fresh water Value: 7.5 mg/l |
| | | Marine water Value: 1 mg/l |
| | | Intermittent use/release Value: 7.5 mg/l |
| | | Sewage treatment plant Value: 1000 mg/l |
| Fattyalcohol ethoxylates =/< C15 and =/< 5EO | : | Fresh water Value: 0.048 mg/l |
| | | Marine water Value: 0.048 mg/l |
| | | Intermittent use/release |

Dip-it Plus

| | |
|--|---|
| | Value: 0.0041 mg/l |
| | Sewage treatment plant Value: 10000 mg/l |
| | Fresh water sediment Value: 292 mg/kg |
| | Marine sediment Value: 292 mg/kg |
| | Soil Value: 1 mg/kg |

8.2 Exposure controls

Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles
Face-shield

Hand protection (EN 374) : Recommended preventive skin protection
Gloves
Nitrile rubber
butyl-rubber
Breakthrough time: 1 – 4 hours
Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4 mm or equivalent (please refer to the gloves manufacturer/distributor for advise).
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection (EN 143, 14387) : When respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, with filter type:

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | : powder |
| Colour | : white |
| Odour | : odourless |
| pH | : 11.6 - 12.0, 1 % |
| Flash point | : Not applicable. |
| Odour Threshold | : Not applicable and/or not determined for the mixture |
| Melting point/freezing point | : Not applicable and/or not determined for the mixture |
| Initial boiling point and boiling range | : Not applicable and/or not determined for the mixture |
| Evaporation rate | : Not applicable and/or not determined for the mixture |
| Flammability (solid, gas) | : Not applicable and/or not determined for the mixture |
| Upper explosion limit | : Not applicable and/or not determined for the mixture |
| Lower explosion limit | : Not applicable and/or not determined for the mixture |
| Vapour pressure | : Not applicable and/or not determined for the mixture |
| Relative vapour density | : Not applicable and/or not determined for the mixture |
| Relative density | : 1.1 - 1.2 |
| Water solubility | : soluble |
| Solubility in other solvents | : Not applicable and/or not determined for the mixture |
| Partition coefficient: n-octanol/water | : Not applicable and/or not determined for the mixture |
| Auto-ignition temperature | : Not applicable and/or not determined for the mixture |
| Thermal decomposition | : Not applicable and/or not determined for the mixture |
| Viscosity, kinematic | : Not applicable and/or not determined for the mixture |
| Explosive properties | : Not applicable and/or not determined for the mixture |
| Oxidizing properties | : Yes |

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

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10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products may include the following materials:

Carbon oxides
nitrogen oxides (NO_x)
Sulphur oxides
Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Product

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg
Acute inhalation toxicity : There is no data available for this product.
Acute dermal toxicity : There is no data available for this product.
Skin corrosion/irritation : There is no data available for this product.
Serious eye damage/eye irritation : There is no data available for this product.
Respiratory or skin sensitization : There is no data available for this product.
Carcinogenicity : There is no data available for this product.
Reproductive effects : There is no data available for this product.
Germ cell mutagenicity : There is no data available for this product.
Teratogenicity : There is no data available for this product.
STOT - single exposure : There is no data available for this product.
STOT - repeated exposure : There is no data available for this product.
Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Sodium Carbonate
LD50 rat: 2,800 mg/kg

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Sodium carbonate peroxyhydrate
LD50 rat: 1,034 mg/kg

sodium metasilicate
LD50 rat: 500 mg/kg

Fattyalcohol ethoxylates \leq C15 and \leq 5EO
LD50 rat: 1,700 mg/kg

Components

Acute dermal toxicity : Fattyalcohol ethoxylates \leq C15 and \leq 5EO
LD50 rabbit: > 2,000 mg/kg

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause respiratory tract irritation. May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Section: 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Components

Toxicity to fish : Sodium Carbonate
96 h LC50 *Lepomis macrochirus* (Bluegill sunfish): 300 mg/l

sodium metasilicate
96 h LC50 Fish: 210 mg/l

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Fattyalcohol ethoxylates \leq C15 and \leq 5EO
96 h LC50 Fish: 1.5 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate
48 h EC50 Ceriodaphnia (water flea): 213.5 mg/l

Sodium carbonate peroxyhydrate
48 h EC50 Daphnia: 4.9 mg/l

12.2 Persistence and degradability

Product

no data available

Components

Biodegradability : Sodium Carbonate
Result: Not applicable - inorganic

Sodium carbonate peroxyhydrate
Result: Not applicable - inorganic

sodium metasilicate
Result: Not applicable - inorganic

Fattyalcohol ethoxylates \leq C15 and \leq 5EO
Result: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

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- Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
- Guidance for Waste Code selection : Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

- 14.1 UN number : 3262
- 14.2 UN proper shipping name : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
(Sodium carbonate peroxyhydrate, sodium metasilicate)
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- 14.5 Environmental hazards : No
- 14.6 Special precautions for user : None

Air transport (IATA)

- 14.1 UN number : 3262
- 14.2 UN proper shipping name : Corrosive solid, basic, inorganic, n.o.s.
(Sodium carbonate peroxyhydrate, sodium metasilicate)
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- 14.5 Environmental hazards : No
- 14.6 Special precautions for user : None

Sea transport (IMDG/IMO)

- 14.1 UN number : 3262
- 14.2 UN proper shipping name : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
(Sodium carbonate peroxyhydrate, sodium metasilicate)
- 14.3 Transport hazard class(es) : 8
- 14.4 Packing group : II
- 14.5 Environmental hazards : No
- 14.6 Special precautions for user : None

Dip-it Plus

user
 14.7 Transport in bulk : Not applicable.
 according to Annex II of
 MARPOL 73/78 and the IBC
 Code

Section: 15. REGULATORY INFORMATION

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

according to Detergents : 15 % or over but less than 30 %: Oxygen-based bleaching agents
 Regulation EC 648/2004 5 % or over but less than 15 %: Phosphates
 less than 5 %: Non-ionic surfactants
 Other constituents: Enzymes

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)
 Regulations.
 The Control of Substances Hazardous to Health Regulations.
 Health and Safety at Work Act.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

| Classification | Justification |
|---|-------------------------------------|
| Skin corrosion 1A, H314 | Based on product data or assessment |
| Serious eye damage 1, H318 | Based on product data or assessment |
| Specific target organ toxicity - single exposure 3, H335 | Calculation method |

Full text of H-Statements

H272 May intensify fire; oxidiser.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Full text of other abbreviations

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; AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw – Body weight; CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR – Carcinogen, Mutagen or Reproductive Toxicant; DIN – Standard of the German Institute for Standardisation; DSL –

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Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number – European Community number; ECx – Concentration associated with x% response; ELx – Loading rate associated with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – Half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organisation for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; n.o.s. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No Observable Effect Loading Rate; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization for Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic substance; PICCS – Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR – (Quantitative) Structure Activity Relationship; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID – Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self-Accelerating Decomposition Temperature; SDS – Safety Data Sheet; TCSI – Taiwan Chemical Substance Inventory; TRGS – Technical Rule for Hazardous Substances; TSCA – Toxic Substances Control Act (United States); UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ANNEX: EXPOSURE SCENARIOS

DPD+ Substances:

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

| Route | Substance | CAS-No. | EINECS-No. |
|------------|---------------------|-----------|------------|
| Ingestion | sodium metasilicate | 6834-92-0 | 229-912-9 |
| Inhalation | sodium metasilicate | 6834-92-0 | 229-912-9 |
| Dermal | sodium metasilicate | 6834-92-0 | 229-912-9 |

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| | | | |
|---------------------|--------------------------------|------------|-----------|
| Eyes | Sodium carbonate peroxyhydrate | 15630-89-4 | 239-707-6 |
| aquatic environment | No lead substance | | |

Physical properties DPD+ Substances:

| Substance | Vapour pressure | Water solubility | Pow | Molar Mass |
|--------------------------------|-----------------|------------------|-----|------------|
| sodium metasilicate | 0.0103 hPa | 210 g/l | | |
| Sodium carbonate peroxyhydrate | < 0.0000001 hPa | 120 g/l | | |

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

www.ecetoc.org/tra

Short title of Exposure Scenario : **Dishwash product. Manual process**

Use descriptors

- Main User Groups : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Sectors of end-use : **SU22:** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Process categories : **PROC10:** Roller application or brushing
PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
- Product categories : **PC35:** Washing and cleaning products (including solvent based products)
- Environmental Release Categories : **ERC8a:** Wide dispersive indoor use of processing aids in open systems