

3D-Wash

Version 1.0

SDS Number: SSO17007CC

Revision Date: 26.06.2017

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

1.1 Product identifier

Trade name : 3D-Wash

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

Use of the Sub-
stance/Mixture : Use at workplace
Cleansing agents, alkaline.

1.3 Details of the supplier of the safety data sheet

Manufacturer : Dalli-Werke GmbH & Co.KG
Zweifaller Straße 120
D-52224 Stolberg
Tel.: 0049 (0)2402 8900

1.4 Responsible Department

Rechtliche Produktsicherheit
Health Safety Environment (HSE)
dalli-msds@dalli-group.com

1.5 Emergency telephone number

phone 0044-870-870-6006266
National Poisons Information Service (Birmingham Centre)
West Midlands Poison Information Unit
City Hospital
Dudley Road, Birmingham, West Midlands, B18 7QH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

REGULATION (EC) No 1272/2008
Skin irritation, Category 2 H315: Causes skin irritation. (Calculation method)

REGULATION (EC) No 1272/2008
Eye irritation, Category 2 H319: Causes serious eye irritation. (Calculation method)

REGULATION (EC) No 1272/2008
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation. (Calculation method)

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
POTASSIUM CARBONATE

2.3 Other hazards

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.

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---------------------|---|--|--------------------------|
| SODIUM CARBONATE | 497-19-8 207-838-8 01-2119485498-19 | Eye Irrit. 2; H319 | >= 30 - < 50 |
| POTASSIUM CARBONATE | 584-08-7 209-529-3 | Skin Corr. 2; H315 Eye Dam. 2; H319 | >= 30 - < 50 |

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| | | | |
|------------------|--|---|--------------|
| | 01-2119532646-36 | STOT SE 3; H335 | |
| CITRIC ACID | 77-92-9 201-069-1 01-2119457026-42 | Eye Irrit. 2; H319 | >= 10 - < 20 |
| SODIUM HYDROXIDE | 1310-73-2 215-185-5 011-002-00-6 01-2119457892-27 | Met. Corr. 1; H290 Skin Corr. 1A; H314 | >= 1 - < 2 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye.
If eye irritation persists, consult a specialist.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If easy to do, remove contact lens, if worn.
- If swallowed : Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If accidentally swallowed obtain immediate medical attention.
Gently wipe or rinse the inside of the mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : None

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.
Do not get in eyes or mouth or on skin.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------|-----------|-------------------------------|---------------------|---------|
| SODIUM HYDROXIDE | 1310-73-2 | STEL | 2 mg/m ³ | GB EH40 |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------|-----------|-----------------|--------------------------|-----------------------|
| SODIUM CARBONATE | Workers | Inhalation | Long-term local effects | 10 mg/m ³ |
| | Consumers | Inhalation | Acute local effects | 10 mg/m ³ |
| SODIUM HYDROXIDE | Workers | Inhalation | Long-term local effects | 1 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 1 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 2,0 mg/m ³ |

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection
Material : Nitrile rubber

Remarks : not required

Skin and body protection : not required

Respiratory protection : not required

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : white

Odour : Characteristic

Odour Threshold : Not relevant

pH : 10 - 11
Concentration: ca. 10 g/l

Melting point/range : No data available

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| | | |
|--|---|--|
| Boiling point/boiling range | : | No data available |
| Flash point | : | Not applicable Other information: Will not burn |
| Evaporation rate | : | Not relevant |
| Upper explosion limit | : | not determined |
| Lower explosion limit | : | not determined |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | Not applicable |
| Bulk density | : | ca. 700 kg/m ³ |
| Solubility(ies) Water solubility | : | soluble |
| Partition coefficient: n- octanol/water | : | No data available |
| Auto-ignition temperature | : | not determined |
| Decomposition temperature | : | No data available |
| Viscosity Viscosity, dynamic | : | Not applicable |
| Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | Not applicable |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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Conditions to avoid : Exposure to moisture

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Components:

SODIUM CARBONATE:

Acute oral toxicity : LD50 Oral (Rat): 2.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2,3 mg/l
Exposure time: 2 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

POTASSIUM CARBONATE:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

CITRIC ACID:

Acute oral toxicity : LD50 Oral (Rat): 3.000 mg/kg

SODIUM HYDROXIDE:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: Irritating to skin and mucous membranes

Components:

SODIUM CARBONATE:

Species: Rabbit

Result: No skin irritation

Species: human skin

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Result: No skin irritation

CITRIC ACID:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Eye irritation

Components:

CITRIC ACID:

Species: Rabbit

Result: Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks: Not applicable

Germ cell mutagenicity

Not classified based on available information.

Components:

SODIUM CARBONATE:

Genotoxicity in vitro : Test Type: in vitro assay
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

SODIUM CARBONATE:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 200 - 227 mg/l
aquatic invertebrates Exposure time: 48 h

SODIUM HYDROXIDE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 45,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 76 mg/l
aquatic invertebrates Exposure time: 24 h

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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

Product:

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Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Offer surplus and non-recyclable solutions to a licensed disposal company.
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Waste Code : The waste is hazardous waste pursuant to EU legislation. The waste code is to be defined in accordance with national legislation and the intended purpose.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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Not applicable

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
Not applicable
Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Occupational Illnesses (R-461-3, France) : Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to metals
Skin Corr. : Skin corrosion
STOT SE : Specific target organ toxicity - single exposure

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 - 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;

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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

Further information

Classification of the mixture:

| | |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H335 |

Classification procedure:

| |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

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.

Responsible Department

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