

Safety Data Sheet

According to EC-Regulation 2020/878; Washing Solution for Tips

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

1.1 Product identifier

Trade Name: External Washing Solution for Tips
Product Number.: 08 3010
Reach registration number: not applicable

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

Relevant identified uses of the substance or mixture
Chemical for research and use in laboratories
Uses advised against: -
The full text of any mentioned and identified use categories are given in section 16.

1.3 Details of the supplier of the safety data sheet

Company and address: Nanion Technologies GmbH
Ganghoferstrasse 70a
D-80339 Munich
Germany
Contact person: Dr. Niels Fertig, CEO
Email: info@nanion.de
SDS date: 13.05.2025
SDS Version: 3.0

1.4 Emergency telephone number

Contact the National Poison Information (dial 112, 24h service; Germany). See section 4 "First aid measures".

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Flam.Liq.3; H226 – See full text of H-phrases in section 2.2, as amended by Regulation (EU) 2024/2865.

2.2 Label Elements

Hazard pictogram(s):



Signal word: Hazard Warning

Hazard statement(s): Hazard statement(s): Flammable liquid and vapour (H226).

Safety statement(s):

General –

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking (P210).

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Response: IN case of fire: Use alcohol-resistant foam/carbonic acid/powder/water mist/dry sand to extinguish (P370+P378).

Storage: Store in a well-ventilated place. Keep cool (P403+P235)

Response –

Storage –

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

Identity of the substances primarily responsible for the major health hazards.

2.3 Other hazards

This product does not contain substances identified as endocrine disruptors according Regulation (EU) 2018/605.

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling: -

Tools: Automated patch clamp Safety Data Sheet according to Regulation (EU) 2020/878 amending Annex II of Reach (EC) No. 1907/2006 1/8 buffer solutions.

Additional warnings: -

VOC: -

Section 3: Compositions/information on ingredients

3.1/3.2 Substances/Mixtures

Name: Ethanol

Identification Nos.: CAS-No.: 64-17-5, EC-No.: 200-578-6 Index-No.: 603-002-00-5

Content: 15 - <25 %

CLP classification: Flam. Liq.2, Eye Irrit. H225, H319

Does not contain any substances required to report. (*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

Other information: Eye Cat. 2 Sum = Sum (Ci/S(G)CLi) = 0,3256 – 0,4884

Section 4: First aid measures

4.1 Description of first aid measures

General Information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact THE National Poisons Information Service (dial 112, 24h service, Germany). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Bring the person into fresh air and stay with him/her.

Skin contact:

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact:

Remove contact lenses. Flush Eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion:

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Provide plenty of water for the person to drink and stay with him/her. In Case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of/or choking on vomited material.

Burns:

Rinse water until the pain stops then continue to rinse for a further 30 minutes.

4.2 Most important symptoms and effects, both acute and delayed

Neurotoxic effects:

This product contains organic solvent, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Nothing special; Information to medics: Bring this Safety Data Sheet.

Section 5: Firefighting measures

5.1 Extinguishing media

Recommended: Alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2 Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon Oxides. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

Upon direct exposure contact The National Poison Service (dial 112, 24h service; Germany) in order to obtain further advice.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

Storage not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2 Environmental precautions

No specific requirements.

6.3 Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect noncombustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4 Reference to other sections

See section on "Disposal Considerations" in regard of handling of waste. See section on "Exposure Controls/Personal

3/9

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Protection" for protective measures.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original containers. Containers that have been opened must be carefully released and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature: Room temperature < 25°C

7.3 Specific end use(s)

This product should only be used for applications quoted in section 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

OEL:

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL/PNEC:

No data available.

8.2 Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations:

Observe general occupational hygiene standards.

Exposure scenarios:

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Apply standard precautions during use of product. Avoid inhalation of gas or dust.

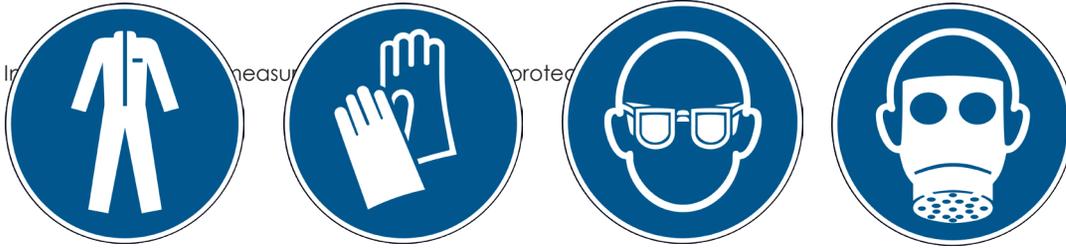
Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environment exposure:

No specific requirements.

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Generally:

Use only CE marked protective equipment.

Respiratory equipment:

If ventilation at the work place is insufficient, use a half- or full mask with an appropriate filter or an air-supplied breathing apparatus depending on the specific work situation and how long will be using the product.

Skin protection:

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

Hand protection:

Wear protective gloves. The specific work is unknown. Contact the supplier of the gloves for further advice regarding the appropriate glove type. Please note that elastic gloves stretch when used. The thickness of the gloves, and therefore their penetration time, will be reduced. Moreover, the temperature of the glove in use is about 35°C, while the standard test, EN 374-3, is done at 23°C. The penetration time is therefore reduced by a factor of 3.

Eye protection:

Wear safety glasses with side shields.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: liquid

Colour: No data available.

Odour: No data available.

pH: 7,4

Viscosity (40°C): No data available.

Density (g/cm³): No data available.

Phase changes:

Melting point (°C): No data available.

Boiling point (°C): No data available.

Vapour pressure: No data available.

Data on fire and explosion hazards:

Flashpoint (°C): 39

Ignition (°C): No data available.

Self-ignition (°C): No data available.

Explosion Limits (Vol %): No data available.

Solubility:

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Solubility in water: Soluble.

n-octanol/water coefficient: No data available.

9.2 Other information

Solubility in fat (g/L): No data available.

Section 10: Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical stability:

Shelf life: 36 months.

10.3 Possibility of hazardous reactions:

Nothing special.

10.4 Conditions to avoid:

Avoid static electricity. Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5 Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6 Hazardous decomposition products:

The product is not degraded when used as specified in "Section 1".

Section 11: Toxicological information

11.1 Information on toxicological products

Acute toxicity:

Substance: Ethanol

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: >20000 mg/kg

Substance: Ethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 7060 mg/kg

Substance: Ethanol

Species: Rat

Test: LD50

Route of exposure: Inhalation

Result: 38 mg/l

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

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No data available.

Respiratory or skin sensitization:
No data available.

Germ cell mutagenicity:
No data available.

Carcinogenicity:
No data available.

Reproductive toxicity:
No data available.

STOT-single exposure:
No data available.

STOT-repeated exposure:
No data available.

Aspiration hazard:
No data available.

Long term effects:
No data available.

Neurotoxic effects:

This product contains organic solvent, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

11.2 Information on toxicological products

Endocrine disruption: The product is free from known endocrine disruption substances. Due to the high purity required for electrophysiological application, no plasticizers, additives or potential hormone-active components are present.

Section 12: Ecological information

12.1 Toxicity

Substance: Ethanol
Species: Fish
Test: LD50
Duration: -
Result: 8140 mg/l

Substance: Ethanol
Species: Daphnia
Test: EC50
Duration: -
Result: 14221 mg/l

12.2 Persistence and degradability

Substance – Biodegradability – Test – Result
No data available.

12.3 Bioaccumulative potential

Substance – Potential Bioaccumulation – LogPow – BCF
No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6 Other adverse effects

Nothing special.

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Section 13: Disposal considerations

13.1 Waste treatment methods

Product is not covered by regulations on dangerous waste.

Waste:

EWC code: -

Specific labelling: -

Contaminated packing: Contaminated packaging must be disposed of similarly to the product.
No specific requirements.

Section 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

14.1 UN number: -

14.2 UN proper shipping name: -

14.3 Transport hazard class(es): -

14.4 packing group: -

Notes: -

Tunnel restriction code: -

IMDG:

UN number: -

Proper shipping name: -

Class: -

PG*: -

EmS: -

MP**: -

Hazardous constituent: -

IATA/ICAO:

UN number: -

Proper shipping name: -

Class: -

PG*: -

14.5 Environmental hazards

14.6 Special precaution for user

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

8/9

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No data available.

(*) Packing group

(**) Marine pollutant

Section 15: Regulatory information

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

Restriction for applicant: -

Demands for the specific education: -

Additional information: -

Sources:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/ECC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (CLP).

15.2 Chemical safety assessment:

not applicable

Section 16: Other information:

Full text of H-phrases as mentioned in "Section3": -

The full text of identified uses as mentioned in "Section 1": -

Other symbols mentioned in "Section 2": -

Other:

In accordance with ARTICLE 31 of REACH a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet is not a product specification (please have a look at our Certificate of Analysis). The information in this safety data sheet applies only to this specific product (mentioned in "Section1") and is not necessarily correct use with other chemicals/products.

A Change (in proportion to the last essential change (first cipher in safety data sheet version, see in "Section 1")) is found under 1.3. Details of the supplier of the safety data sheet; SDS Version.

The safety data sheet is validated by:

Axel Brüggemann (Product Manager Reagents)

Date of the last essential change: 02.07.2024

(Cipher in SDS version) 2.0

Date of last minor change: 25.06.2024

(Cipher in SDS version) 1.3