

Material Safety Data Sheet

according to Regulation (EC) 1907/2006

Product name : **topol-cleaner**

Revision : 20.12.2012

Version (Revision) : 5.0.1 (5.0.0)

Print date : 08.01.2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

topol-cleaner (31430447)

1.2 Relevant identified uses of the substance or mixture

Alcalin cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : Topol AG
Street/P.O.Box : Aengermatte 94
Country code/Postal code/Town/City : 4936 Kleindietwil
Telephone : 0629230443
Telefax : 0629230441
Contact : Jakob Tobler (info@topol.ch)

1.4 Emergency telephone number

Schweizerisches Tox-Zentrum, 24h-Notfallnr. 145, Telefon +41 (0)44 251 51 51

2. Hazards identification

2.1 Classification of the substance or mixture

Directive 67/548/EEC or 1999/45/EC

Causes burns. · Limited evidence of a carcinogenic effect.

C ; R 34 · Carc. Cat.3 ; R 40

Regulation (EC) No 1272/2008 (GHS)

Causes severe skin burns and eye damage.

Skin Corr. 1B ; H314

2.2 Label elements

Directive 67/548/EEC or 1999/45/EC

Danger symbol and danger designation



C ; Corrosive

Hazard-determining components of labelling

TRISODIUM NITRILOTRIACETATE ; CAS-No. : 5064-31-3

SODIUM HYDROXIDE ; CAS-No. : 1310-73-2

R-phrases

34 Causes burns.
40 Limited evidence of a carcinogenic effect.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
51 Use only in well-ventilated areas.
24/25 Avoid contact with skin and eyes.

Regulation (EC) No 1272/2008 (GHS)

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard-determining components of labelling

TRISODIUM NITRILOTRIACETATE ; CAS-No. : 5064-31-3

SODIUM HYDROXIDE ; CAS-No. : 1310-73-2

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash the skin immediately and thoroughly with plenty of water after contact or after handling.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (show medical advice the label where possible).
P301/330/331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P405	Store locked up.
P501	This material and its container must be disposed of in a safe way.

2.3 Other hazards

None.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

TRISODIUM NITRILOTRIACETATE ; EC-No. : 225-768-6; CAS-No. : 5064-31-3

Percentage : 20 - 30 %

Classification 67/548/EEC : Xn ; R40 Xi ; R36

Classification 1272/2008 (GHS) : Met. Corr. 1 ; H290 Eye Irrit. 2 ; H319

SODIUM HYDROXIDE ; EC-No. : 215-185-5; CAS-No. : 1310-73-2

Percentage : 2 - 5 %

Classification 67/548/EEC : C ; R35

Classification 1272/2008 (GHS) : Skin Corr. 1A ; H314

For the wording of the listed risk phrases refer to section 16.

Ingredients after detergents regulation (EC) No. 648/2004

NTA (nitrilotriacetic acid) and salts thereof 15 - < 30 %

4. First-aid measures

4.1 Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration.

Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Flush away with water and rinse. Keep at rest. Contact a doctor immediately.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10-15 min.). Contact a doctor immediately.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting. If swallowed, rinse mouth with plenty of water and drink 1-2 dl water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None.

5. Fire-fighting measures

Adapt extinguishing measures to suit the environment.

5.1 Extinguishing media

Suitable extinguishing media

Foam, CO2, powder extinguisher, water haze, water spray jet.

5.2 Special hazards arising from the substance or mixture

Not combustible under normal conditions. In case of fire toxic gases may be formed. Through reaction with metals it is delivering hydrogen.

5.3 Advice for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information

Do not allow the quenching water into the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

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6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dam in / embank.

6.4 Reference to other sections

None.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Avoid contact with skin and eyes. Do not eat or drink during work. Comply with the health and safety at work laws. Normal precautions taken when handling chemicals should be observed. Keep locked up. Prevent aerosol formation. Do not breathe spray.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers

Always keep in original container. See also instructions on the label. Containers should be kept sealed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storerooms need to be well ventilated. Store in accordance with local official regulations.

Information about separation of incompatible products

Keep away from oxidizing agents and from acid materials.

Further information about storage conditions

Storage class (VCI) : 8B

7.3 Specific end use(s)

None.

8. Exposure controls/personal protection

8.1 Control parameters

None.

8.2 Exposure controls

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

EN 143, EN 14387. None, if handled according to order.

Hand protection

Appropriate chemical resistant protective gloves according to EN 374 (Recommended level 6 according to > 480 min permeation according to EN 374): Category 3 (EN 374-3), material: nitrile, thickness: ≥ 0.38 mm, permeation: > 480 min, swelling: resistant, penetration level : 3 = AQL value 0.65 = 100 % tight. Glove Recommendation: eg Sol-Vex 37-675 length 33 cm or Sol-Vex 37-185 length 45 cm. This information is based on the manufacturer's specifications. It should be noted that the duration of daily use chemical protective glove in practice (because of many factors such as heat) can be significantly shorter than the calculated according to EN 374 permeation. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses or face protection to EN 166.

Body protection

Wear suitable protective clothing to EN 14605, EN 20344, EN 20345: protective clothing and boots.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Image

Form : Liquid.
Colour : Colourless.
Odour : Odourless.

Relevant safety data

Boiling point / range :	(1013 hPa)	not applicable
Flash point :		not applicable
Vapour pressure :	(50 °C)	not applicable
Density :	(20 °C)	1.25 g/cm ³
Solvent-separation test :	(20 °C)	not applicable
Solubility in water :		well water-solubly
pH value :	(20 °C / 5 g/l)	10.6
Viscosity :	(20 °C)	ca. 10 mPa.s

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9.2 Other information

None.

10. Stability and reactivity

10.1 Reactivity

There are no data available on the product itself.

10.2 Chemical stability

There are no data available on the product itself.

10.3 Possibility of hazardous reactions

There are no data available on the product itself.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

10.5 Incompatible materials

Keep away from oxidizing agents and from acid materials.

10.6 Hazardous decomposition products

None known.

11. Toxicological information

11.1 Information on toxicological effects

There are no data available on the product itself.

11.2 Experience on practice

In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: Causes burns. Inhaling: in high concentration irritations of the mucous membranes possible. After swallowing: Causes burns at mouth, throat, mucous membrane, esophagus, stomach, intestine.

11.3 Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

12.1 Toxicity

There are no data available on the product itself.

12.2 Persistence and degradability

There are no data available on the product itself.

12.3 Bioaccumulative potential

There are no data available on the product itself.

12.4 Mobility in soil

There are no data available on the product itself.

12.5 Results of PBT and vPvB assessment

There are no data available on the product itself.

12.6 Other adverse effects

There are no data available on the product itself.

12.7 Additional information

The sewage liberated during use can be emptied into drains after separation of the solid material part and with preceding neutralization. When leading acid or alkaline products into sewage disposal plants, the waste water lead in must not be above or below a ph-value of 6.5 to 9, for a displacement of the ph-value may cause disturbances in sewers and biological sewage works. Local rules have priority.

13. Disposal considerations

Product residues are considered as special refuse and are by the label "special refuse" and the waste code to be marked. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant.

13.1 Waste treatment methods

Waste key

Waste code (91/689/EEC) : 20 01 15* Waste code (ÖNORM S 2100): 52402 Lyes

14. Transport information

14.1 UN number

3266

14.2 UN proper shipping name

ADR/RID

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRISODIUM NITRILOTRIACETATE · SODIUM HYDROXIDE, SOLUTION)

IMDG-Code

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRISODIUM NITRILOTRIACETATE · SODIUM HYDROXIDE, SOLUTION)

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ICAO-TI / IATA-DGR

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRISODIUM NITRILOTRIACETATE · SODIUM HYDROXIDE, SOLUTION)

14.3 Transport hazard class(es)

ADR/RID

Class : 8
Classification-Code : C5
Kemlercode : 80
Tunnel restriction code : E
Special provisions : LQ 7 · E 1
Label : 8

IMDG-Code

Class : 8
EmS number : F-A / S-B
Special provisions : LQ 5 1 · E 1
Label : 8

ICAO-TI / IATA-DGR

Class : 8
Special provisions : E 1
Label : 8

14.4 Packing group

III

14.5 Environmental hazards

ADR/RID : -

IMDG-Code : -

ICAO-TI / IATA-DGR : -

14.6 Special precautions for user

None.

15. Regulatory information

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

National regulatory information

Water pollution classification

Class : 2 according VwVwS

15.2 Chemical safety assessment

There are no data available on the product itself.

16. Other information

Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The user is responsible for the observance of all required statutory provisions.

Relevant changes

07. Handling and storage · 08.2 Personal protective equipment

R-Phrases of components

34 Causes burns.
35 Causes severe burns.
36 Irritating to eyes.
40 Limited evidence of a carcinogenic effect.

GHS Hazard statements of components

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.