

Gold jewelry bath

Beco Technic GmbH
21502 Geesthacht

Date printed 06.11.2019, Revision 02.07.2018

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Gold jewelry bath**

**Article number: 141278, DIA141278, 141278TS, 141221, 141211N,
87152189, 141278OV, 141107**

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant uses**

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet**Company**

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Address enquiries to**Technical information**info@beco-technic.com**Safety Data Sheet**sdb@chemiebuero.de**1.4 Emergency telephone number****Advisory body**

+49 (0) 551-19240 (24h, available English / German)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms**Signal word**

DANGER

Contains:

Hydrochloric acid

Fatty alcohols, C10-16, ethoxylated propoxylated

Hazard statements

H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear eye protection / face protection.
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.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants
< 5% anionic surfactant
fragrances LINALOOL
fragrances HEXYL CINNAMAL
fragrances BUTYLPHENYL METHYLPROPIONAL
fragrances

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2.3 Other hazards

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
1 - < 5	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - < 3	Fatty alcohols, C10-16, ethoxylated propoxylated
	CAS: 69227-22-1, EINECS/ELINCS: 614-942-0
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
1 - < 5	Hydrochloric acid
	CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
	GHS/CLP: Skin Corr. 1B: H314 - STOT SE 3: H335 - Met. Corr. 1: H290
1 - < 5	(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
	CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
1 - < 5	1-butoxypropan-2-ol
	CAS: 5131-66-8, EINECS/ELINCS: 225-878-4, EU-INDEX: 603-052-00-8, Reg-No.: 01-2119475527-28-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319
0,1 - <1	Thiourea
	CAS: 62-56-6, EINECS/ELINCS: 200-543-5, EU-INDEX: 612-082-00-0
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361d - Acute Tox. 4: H302 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.

Skin contact

In case of contact with skin wash off with warm water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice.

Ingestion

Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.
Gastro-intestinal complains.
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media Foam.
Dry powder.
Water spray jet.
Carbon dioxide.

Extinguishing media that must not
be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special measures necessary if used correctly.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide acid-resistant floor.
Do not store together with oxidizing agents.
Do not store with alkalis.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Hydrochloric acid
CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
Long-term exposure: 1 ppm, 2 mg/m ³ , gas and aerosol mists
Short-term exposure (15-minute): 5 ppm, 8 mg/m ³
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
Long-term exposure: 50 ppm, 308 mg/m ³ , Sk

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Hydrochloric acid
CAS: 7647-01-0, EINECS/ELINCS: 231-595-7, EU-INDEX: 017-002-01-X, Reg-No.: 01-2119484862-27-XXXX
Eight hours: 5 ppm, 8 mg/m ³
Short-term (15-minute): 10 ppm, 15 mg/m ³
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value)
CAS: 34590-94-8, EINECS/ELINCS: 252-104-2, Reg-No.: 01-2119450011-60-XXXX
Eight hours: 50 ppm, 308 mg/m ³ , H

DNEL

Substance
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
Industrial, inhalative, Long-term - systemic effects: 308 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 283 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 36 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 121 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 37,2 mg/m ³ .
1-butoxypropan-2-ol, CAS: 5131-66-8
Industrial, inhalative, Long-term - systemic effects: 147 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 52 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 22 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 12,5 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 43 mg/m ³ .
Hydrochloric acid, CAS: 7647-01-0
Industrial, inhalative, Long-term - local effects: 8 mg/m ³ .
Industrial, inhalative, Acute - local effects: 15 mg/m ³ .
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
general population, dermal, Long-term - systemic effects: 319 mg/kg.

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PNEC

general population, oral, Long-term - systemic effects: 26 mg/kg kg/d.

Substance

(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8

soil, 2,74 mg/kg dw.

sediment (seawater), 7,02 mg/kg dw.

sediment (freshwater), 70,2 mg/kg dw.

sewage treatment plants (STP), 4168 mg/l.

seawater, 1,9 mg/l.

freshwater, 19 mg/l.

1-butoxypropan-2-ol, CAS: 5131-66-8

sediment (seawater), 0,236 mg/kg dw.

freshwater, 0,525 mg/l.

seawater, 0,0525 mg/l.

sediment (freshwater), 2,36 mg/kg dw.

soil, 0,16 mg/kg dw.

sewage treatment plants (STP), 10 mg/l.

Propan-2-ol, CAS: 67-63-0

soil, 28 mg/kg.

sewage treatment plants (STP), 2251 mg/l.

freshwater, 140,9 mg/l.

sediment (freshwater), 552 mg/kg.

sediment (seawater), 552 mg/kg.

seawater, 140.9 mg/l.

8.2 Exposure controls

Additional advice on system design not applicable**Eye protection** Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further information.
 In full contact:
 > 0,5 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).
 In splash contact:
 > 0,5 mm; Butyl rubber, >120 min (EN 374-1/-2/-3).

Skin protection Not required under normal conditions.

Other Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
 Avoid contact with eyes and skin.

Respiratory protection Not required under normal conditions.**Thermal hazards** not applicable

Delimitation and monitoring of the environmental exposition Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	orange
Odor	characteristic
Odour threshold	not applicable
pH-value	0,62
pH-value [1%]	2,3
Boiling point [°C]	No information available.
Flash point [°C]	>65
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,003
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with alkalis (lyes).

10.4 Conditions to avoid

Strong oxidizing agent.

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, oral, > 2000 mg/kg.
Substance
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
LD50, dermal, Rabbit: 13000-14000 mg/kg (IUCLID).
LD50, oral, Rat: 5230 mg/kg (IUCLID).
Fatty alcohols, C10-16, ethoxylated propoxylated, CAS: 69227-22-1
LD50, oral, 1800 mg/kg.
1-butoxypropan-2-ol, CAS: 5131-66-8
LD50, oral, Rat: 3300 mg/kg.
LD50, dermal, Rat: >2000 mg/kg.
LC50, inhalative, Rat: > 3,5 mg/l/4h.
Thiourea, CAS: 62-56-6
LD50, oral, Rat: 1750 mg/kg (Lit.).
LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
Hydrochloric acid, CAS: 7647-01-0
LD50, oral, Rabbit: 900 mg/kg.
LD50, dermal, Rabbit: > 5010 mg/kg.
LC50, inhalative, Rat: 4,2 - 4,7 mg/l 1h.
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rat: 4570-5840 mg/kg.
LD50, dermal, Rabbit: 6410 mg/kg.
LD50, oral, mouse: 3600 mg/kg (RTECS).
LC50, inhalative, Rat: 30-73 mg/l/4h.
LC50, inhalative, Rabbit: 30 mg/l/4h.

Serious eye damage/irritation	Risk of serious damage to eyes. The classification is due to the extreme pH.
Skin corrosion/irritation	In-vitro-Test "Corrosive" negative. Irritant Expert judgement
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Toxicological data of complete product are not available. Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Toxicological data of complete product are not available. This product contains one or more substances of categorie Repr. 2 (CLP). Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Toxicological data of complete product are not available. This product contains one or more substances of categorie Carc. 2 (CLP). Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The

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toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information**12.1 Toxicity**

Substance
(2-Methoxymethylethoxy)propanol (EU occupational exposure limit value), CAS: 34590-94-8
LC50, (48h), Daphnia magna: 1919 mg/l.
LC50, (96h), Poecilia reticulata: > 1000 mg/l.
ErC50, (96h), Pseudokirchneriella subcapitata: > 969 mg/l.
Fatty alcohols, C10-16, ethoxylated propoxylated, CAS: 69227-22-1
LC50, Brachidanio rerio: > 1-10 mg/l (DIN EN ISO 7346-2).
EC0, Pseudomonas putida: > 100 mg/l (OECD-209).
1-butoxypropan-2-ol, CAS: 5131-66-8
LC50, (48h), Daphnia magna: >1000 mg/l.
LC50, (96h), Poecilia reticulata: 560-1000 mg/l.
Thiourea, CAS: 62-56-6
LC50, (96h), Danio rerio: 10000 mg/l (Lit.).
EC50, (48h), Daphnia magna: 35 mg/l (IUCLID).
IC50, (72h), Desmodemus subspicatus: 3,8 - 10 mg/l (IUCLID).
Hydrochloric acid, CAS: 7647-01-0
LC50, Leuciscus idus: 862 mg/l.
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Pimephales promelas: 9640 mg/l.
LC50, (48h), Leuciscus idus: 8970 mg/l (DIN 38412, 15).
EC50, (24h), Daphnia magna: > 1000 mg/l (DIN 38412, 11).
EC50, (72h), Scenedesmus subspicatus: > 100 mg/l (Lit.).
EC10, Pseudomonas putida: 5175 mg/l (DIN 38412).

12.2 Persistence and degradability**Behaviour in environment compartments**

No information available.

Behaviour in sewage plant

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Biological degradability

The surfactants contained in this preparation 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 information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Harmful effect due to pH shift.

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

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SECTION 13: Disposal considerations
13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070601*
200129*

Contaminated packaging

Uncontaminated packaging may be reused.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information
14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) < 5%

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information**16.1 Hazard statements
(SECTION 03)**

H411 Toxic to aquatic life with long lasting effects.
 H361d Suspected of damaging the unborn child.
 H351 Suspected of causing cancer.
 H315 Causes skin irritation.
 H290 May be corrosive to metals.
 H335 May cause respiratory irritation.
 H314 Causes severe skin burns and eye damage.
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H336 May cause drowsiness or dizziness.
 H319 Causes serious eye irritation.
 H225 Highly flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Eye Dam. 1: H318 Causes serious eye damage. (Expert judgement)
 Skin Irrit. 2: H315 Causes skin irritation. (Expert judgement)

Modified position

none

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