

CHEMOTEC GmbH  
63486 Bruchköbel

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

### 1.1 Product identifier

**rea-pur**

### 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

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**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.  
STOT SE 3: H335 May cause respiratory irritation.  
Met. Corr. 1: H290 May be corrosive to metals.  
Eye Dam. 1: H318 Causes serious eye damage.

### 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:

Disodium metasilicate-pentahydrate  
Sodium dodecyl sulphate

#### Hazard statements

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

#### Precautionary statements

P260 Do not breathe dust.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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 / ...  
P501 Dispose of contents/container in accordance with local/national regulation.

#### Cleaner, 648/2004/CE, contains:

5 - <15% anionic surfactant  
15 - <30% phosphates  
< 5% non-ionic surfactants

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**2.3 Other hazards**

<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

**SECTION 3: Composition / Information on ingredients****3.1 Substances**

not applicable

**3.2 Mixtures**

The product is a mixture.

Range [%]	Substance
30 - 50	Disodium metasilicate-pentahydrate CAS: 10213-79-3, EINECS/ELINCS: 229-912-9, EU-INDEX: 014-010-00-8 GHS/CLP: Skin Corr. 1B: H314 - STOT SE 3: H335 - Met. Corr. 1: H290
1 - <10	Sodium dodecyl sulphate CAS: 151-21-3, EINECS/ELINCS: 205-788-1, Reg-No.: 01-2119489461-32-XXXX GHS/CLP: Flam. Sol. 2: H228 - Acute Tox. 4: H302 H332 - Eye Dam. 1: H318 - Skin Irrit. 2: H315 - STOT SE 3: H335 - Aquatic Chronic 3: H412
1 - <3	Isotridecanol, ethoxylated CAS: 9043-30-5, EINECS/ELINCS: 500-027-2 GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

**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**

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
<b>Ingestion</b>	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Consult a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

Product is caustic.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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

<b>Suitable extinguishing media</b>	All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
<b>Extinguishing media that must not be used</b>	Full water jet.

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**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.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

Use breathing apparatus if exposed to dust.

Avoid dust formation.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically.

Avoid raising dust.

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**

Use only in well-ventilated areas.

Avoid the formation and deposition of dust.

Provide vacuuming if dust raised.

Do not eat, drink or smoke when using this product.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep only in original container.

Prevent penetration into the ground.

Do not store together with acids.

Do not store together with metals.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

Store in a dry place.

**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)**

not applicable

**DNEL**

Substance
Sodium dodecyl sulphate, CAS: 151-21-3
Industrial, inhalative, Long-term - systemic effects: 285 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 4060 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 85 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 24 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 2440 mg/kg bw/d.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
Industrial, inhalative, Long-term - systemic effects: 6,22 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 0,74 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 1,55 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 1,49 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,74 mg/kg bw/day.

**PNEC**

Substance
Sodium dodecyl sulphate, CAS: 151-21-3
soil, 0,882 mg/L.
sediment (seawater), 0,482 mg/L.
sediment (freshwater), 4,82 mg/L.
sewage treatment plants (STP), 1084 mg/L.
seawater, 0,0137 mg/L.
freshwater, 0,137 mg/L.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
sewage treatment plants (STP), 1000 mg/L.
seawater, 1 mg/L.
freshwater, 7,5 mg/L.

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**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m <sup>3</sup> particle inhalable; 3 mg/m <sup>3</sup> particle respirable).
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001)
<b>Hand protection</b>	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Long-sleeved work clothes.
<b>Other</b>	Do not inhale dust. Avoid contact with eyes and skin. 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.
<b>Respiratory protection</b>	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	powder
<b>Color</b>	blue
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not determined
<b>pH-value</b>	strongly alkaline
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	not determined
<b>Bulk density [kg/m<sup>3</sup>]</b>	not determined
<b>Solubility in water</b>	soluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	No information available.

**9.2 Other information**

none

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**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 light metals in the presence of moisture, with evolution of hydrogen.

**10.4 Conditions to avoid**

Strong heating.

**10.5 Incompatible materials**

See SECTION 10.3.

**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 oral toxicity**

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LD50, oral, Rat: 500 - 2000 mg/kg bw.
Sodium dodecyl sulphate, CAS: 151-21-3
LD50, oral, Rat: >500 - 2000 mg/kg bw.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
LD50, oral, Rat: 1152-1349 mg/kg.

**Acute dermal toxicity**

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LD50, dermal, Rat: > 2000 mg/kg bw.
Sodium dodecyl sulphate, CAS: 151-21-3
LD50, dermal, Rabbit: >2000 mg/kg bw.

**Acute inhalational toxicity**

Substance
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
LC50, inhalative, Rat: > 2,06 mg/L.

**Serious eye damage/irritation**

Risk of serious damage to eyes.  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
Gefahr ernster Augenschäden..
Sodium dodecyl sulphate, CAS: 151-21-3
OECD 405.
Gefahr ernster Augenschäden.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
No information available.:
Eye corrosive

**Skin corrosion/irritation**

Product is caustic.  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
dermal, Rabbit:
negative.
Sodium dodecyl sulphate, CAS: 151-21-3
OECD 404.
irritant
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
No information available.:

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Skin corrosive

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

Substance

Isotridecanol, ethoxylated, CAS: 9043-30-5

No information available.:

Sodium dodecyl sulphate, CAS: 151-21-3

OECD 429.

negative.

Disodium metasilicate-pentahydrate, CAS: 10213-79-3

No information available.:

**Specific target organ toxicity — single exposure** May cause respiratory irritation.  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance

Isotridecanol, ethoxylated, CAS: 9043-30-5

No information available.:

Sodium dodecyl sulphate, CAS: 151-21-3

No information available.:

Kann reizend auf die Atemwege wirken.

Disodium metasilicate-pentahydrate, CAS: 10213-79-3

No information available.:

inhalation.

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance

Isotridecanol, ethoxylated, CAS: 9043-30-5

No information available.:

Sodium dodecyl sulphate, CAS: 151-21-3

negative.

NOAEL, 400 - 488 mg/kg bw/day.

Disodium metasilicate-pentahydrate, CAS: 10213-79-3

No information available.:

**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.

Substance

Isotridecanol, ethoxylated, CAS: 9043-30-5

No information available.:

Sodium dodecyl sulphate, CAS: 151-21-3

OECD 476.

Ames test (OECD 47)1.

negative.

Disodium metasilicate-pentahydrate, CAS: 10213-79-3

No information available.:

**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance



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Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
Sodium dodecyl sulphate, CAS: 151-21-3
OECD 414.
negative.
NOAEL, oral, Rat: 300 mg/kg bw/day.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
No information available.:

**Carcinogenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
No information available.:
Sodium dodecyl sulphate, CAS: 151-21-3
OECD 453.
negative.
NOAEL, oral, Rat: 1125 mg/kg bw/day.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
No information available.:

**Aspiration hazard**

Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Product is severely caustic.

Toxicological data of complete product are not available.  
 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 toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

**SECTION 12: Ecological information****12.1 Toxicity**

Substance
Isotridecanol, ethoxylated, CAS: 9043-30-5
LC50, (96h), Danio rerio: > 1 - 10 mg/l OECD 203.
EC50, (17h), Pseudomonas putida: >= 10 mg/l OECD 201.
EC50, (72h), Desmodesmus subspicatus: >= 10 mg/l OECD 201.
EC50, (48h), Daphnia magna: 7,07 mg/l OECD 202.
Sodium dodecyl sulphate, CAS: 151-21-3
LC50, (96h), Pimephales promelas: 10 - 100 mg/L.
EC50, (72h), Desmodesmus subspicatus: >100 mg/L.
EC50, (48h), Ceriodaphnia dubia: >100 mg/L.
Disodium metasilicate-pentahydrate, CAS: 10213-79-3
LC50, (96h), Brachidanio rerio: 210 mg/L.
EC50, (72h), Desmodesmus subspicatus: > 345 mg/L.
EC50, (48h), Daphnia magna: 1700 mg/L.

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## 12.2 Persistence and degradability

### Behaviour in environment compartments

#### Behaviour in sewage plant

No information available.

#### 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

Accumulation in organisms is not expected.

## 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 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

Ecological data of complete product are not available.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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

Dispose of as hazardous waste.  
 Coordinate disposal with the authorities if necessary.

#### Waste no. (recommended)

200129\*

#### Contaminated packaging

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

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances  
 150102

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## SECTION 14: Transport information

### 14.1 UN number

Transport by land according to ADR/RID 3253

Inland navigation (ADN) 3253

Marine transport in accordance with IMDG 3253

Air transport in accordance with IATA 3253

### 14.2 UN proper shipping name

Transport by land according to ADR/RID Disodium trioxosilicate, mixture

- Classification Code C6

- Label



- ADR LQ 5 kg

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN) Disodium trioxosilicate, mixture

- Classification Code C6

- Label



Marine transport in accordance with IMDG Disodium trioxosilicate, mixture

- EMS F-A, S-B

- Label



- IMDG LQ 5 kg

Air transport in accordance with IATA Disodium trioxosilicate, mixture

- Label



### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

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**14.4 Packing group**

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

**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** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

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

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** 0 %

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 3)**

H302 Harmful if swallowed.  
 H412 Harmful to aquatic life with long lasting effects.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H302+H332 Harmful if swallowed or if inhaled.  
 H228 Flammable solid.  
 H290 May be corrosive to metals.  
 H335 May cause respiratory irritation.  
 H314 Causes severe skin burns and eye damage.

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**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  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 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  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 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**

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)  
 STOT SE 3: H335 May cause respiratory irritation. (Calculation method)  
 Met. Corr. 1: H290 May be corrosive to metals. (Calculation method)  
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

**Modified position**

none

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