

# HARTNOLL Ltd

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## HEALTH AND SAFETY DATA SHEET

### RATIONAL CLEANER TABLETS

**Emergency Telephone Number:** +49 (0)89 19240 24 hours

#### Hazards Identification

Classification under CHIP C: R35

Classification under CLP \* Skin Corr. 1A: H314

Most important adverse effects: Causes severe burns.

\* Label elements under CLP:

Hazard statement H314: Causes severe skin burns and eye damage

Signal words Danger

Hazard pictograms GHS05: Corrosion

Hazard components for labeling Sodium hydroxide, Sodium metasilicate, Fatty alcohol ethoxylate

Precautionary statements P102: Keep out of reach of children.  
P101: If medical advice is needed, have product container or label at hand.

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P310: Immediately call a POISON CENTRE or doctor.  
P501: Dispose of the contents as problem waste.

Labels elements under CHIP:

Hazard Symbols Corrosive

Risk Phrases R35: Causes severe burns

Safety Phrases S1/2: Keep locked up and out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

PBT: This substance is not identified as a PBT substance

#### Composition / Information on ingredients

Hazardous Ingredients:

CAS : 1310-73-2 EINECS: 215-185-5	Sodium Hydroxide	C: R35	>20 %	Skin Corr. 1A: H314
CAS: 6834-92-0 EINECS: 229-912-9	Disodium Metasilicate	C: R34 Xi: R37	10-20%	Skin Corr. 1B: H314; STOT SE 3: H335
CAS: 497-19-8 EINECS: 207-838-8	Sodium Carbonate	Xi: R36	10-20%	Eye Irrit. 2: H319
CAS: 111190-40-0	Fatty Alcohol Ethoxylate	Xi: R41; N: R50	1-5%	Eye Dam. 1: H318; Aquatic Acute 1: H400

Non-hazardous ingredients:

CAS: 7758-29-4 EINECS: 231-838-7	Sodium Tripolyphosphate		<20%
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#### First Aid Measures

Description of first aid measures

Skin Contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye Contact	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion	Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor.
Inhalation	Move to fresh air in case of accidental inhalation of vapours.
Most important symptom and effects, both acute and delayed:	
Skin Contact	Irritation or pain may occur at the site of contact. Severe burns may occur.
Eye Contact	Corneal burns may occur. May cause permanent damage.
Ingestion	Corrosive burns may appear around the lips. Nausea and stomach pain may occur.
Delayed/immediate effects	Immediate effects can be expected after short-term exposure.
Immediate / special treatment	Eye bathing equipment should be available on the premises.

#### Fire Fighting Measures

Extinguishing media	Suitable extinguishing media for the surrounding fire should be used.
Exposure hazards	Corrosive.
Advice for fire-fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

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with skin and eyes.

### Accidental Release Measures

**Personal precautions** Do not attempt to take action without suitable protective clothing – see Section Exposure Controls/ Personal Protection.

**Environmental precautions** Do not discharge into drains or rivers

**Clean-up procedures** Wash the spillage site with large amounts of water. Refer to Section Disposal Considerations of SDS for suitable method of disposal.

**Reference to other sections** Refer to Section Exposure Controls/Personal Protection of SDS.

### Exposure Controls / Personal Protection

**Engineering measures** Ensure there is sufficient ventilation of the area

**Respiratory protection** Respiratory protection not required

**Hand protection** Gloves (alkali-resistant). Breakthrough time of the glove material < 1 hour.

**Eye protection** Tightly fitting safety goggles. Ensure eye bath is to hand.

### SODIUM HYDROXIDE

State	8 hour TWA	15 min. STEL	8 HOUR TWA	15 min. STEL
UK		2 mg/m <sup>3</sup>		

### Physical and Chemical Properties

**Form:** Solid

**Colour:** White

**Smell:** Characteristic odour

**Flash Point:** >93°C

**Oxidising** Non-oxidising (by EC criteria)

**Relative density** 1100g/l

**Solubility in Water:** Soluble

**PH:** 12.7

### Handling and Storage

**Handling** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

**Storage conditions** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging** Must only be kept in original packaging.

### Stability and Reactivity

**Reactivity** Stable under recommended transport or storage conditions.

**Chemical stability** Stable under normal conditions.

**Hazardous reactions** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**Conditions to avoid** Humidity

**Materials to avoid** Acids. Metals

**Haz. Decomp. Products** In combustion emits toxic fumes. Contact with acids liberates toxic gas

### Toxicological Information

Route	Species	Test	Value	Units
Fatty alcohol ethoxylate: ORL	RAT	LD50	>2000	Mg/kg
Sodium carbonate: ORL	RAT	LD50	>2000	Mg/kg
Sodium	RAT	LD50	1280	Mg/kg

metasilicate: ORL				
NaOH: ORL	RAT	LD50	2000	Mg/kg

**Skin contact** Irritation or pain may occur at the site of contact. Severe burns may occur.

**Eye contact** Corneal burns may occur. May cause permanent damage

**Ingestion** Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

**Delayed/immediate effects** Immediate effects can be expected after short-term exposure.

### Ecological Information

**Persistence and degradability** Biodegradable

**Mobility** Soluble in water

**PBT identification** This substance is not identified as a PBT substance.

### Ecotoxicity values

Species	Test	Value	Units
Alcohol alcoxylate: Leuciscus idus	96H LC50	0,1-1	Mg/l
Daphnia magna	100H EC50	247	Mg/l
Sodium metasilicate: Danio rerio	96H LC50	210	Mg/l

### Disposal Considerations

**Disposal operations** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number** 20 01 29

**Disposal of packaging** May be reused following decontamination.

**NB** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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**Transport Information**

UN number UN3262  
Shipping name CORROSIVE SOLID, BASIC,  
INORGANIC, N.O.S.  
(SODIUM HYDROXIDE; DISODIUM  
METASILICATE)  
Limited Quantity: 1kg  
Transport class 8  
Packing group II  
Environmentally hazardous No  
Special precautions No special precautions  
Tunnel code E  
Transport category 2  
Marine pollutant No

**Regulatory Information**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Other information**

Other information This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006.  
\* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

Phrases used in Section Hazard Identification and Composition of Ingredients  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
R34: Causes burns.  
R35: Causes severe burns.  
R36: Irritating to eyes.  
R37: Irritating to respiratory system.  
R41: Risk of serious damage to eyes.  
R50: Very toxic to aquatic organisms

Legal disclaimer The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Date 15<sup>th</sup> March 2013  
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