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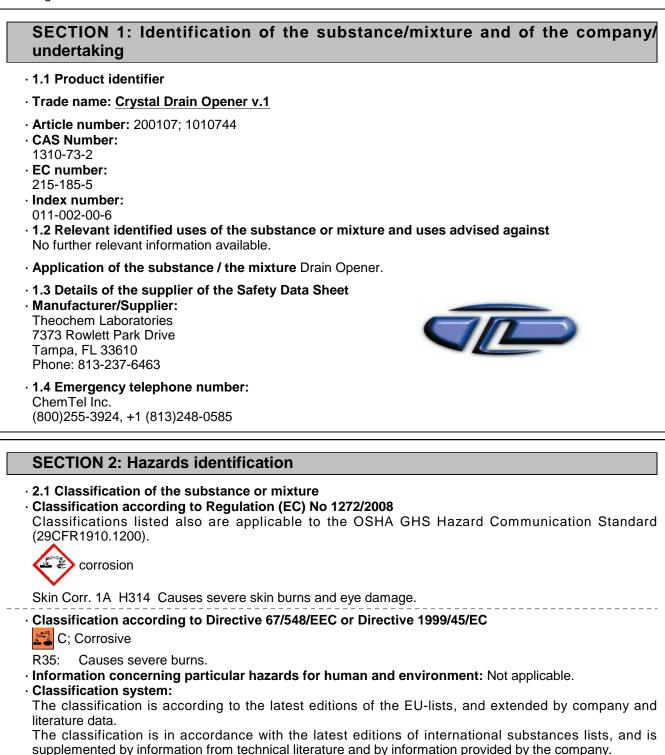
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Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS). The substance is classified and labelled according to the CLP regulation. Hazard pictograms Verify GHS05 Signal word Danger Hazard-determining components of labelling: sodium hydroxide Hazard statements Hazard statements Hazard statements Hazard statements P280 Wear protective gloves / eye protection. P284 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Confinue rinsing. P301+P330+P331 IF SWALLOWED: Insee mouth. Do NOT induce vomiting. P301 Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard description: WHMIS-symbols: E - Corrosive material Verify Cale 0 - 4). Health = 3 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4). Image state = 3 Reactivity = 0 	(Contd. of page 1)
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· 2.3 Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

- · CAS No. Description
- 1310-73-2 sodium hydroxide
- · Identification number(s)
- · EC number: 215-185-5
- · Index number: 011-002-00-6

SECTION 4: First aid measures

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 Suitable extinguishing agents: Foam
 Fire-extinguishing powder
 Water in flooding quantities.
 Sand
 Dry sand
- For safety reasons unsuitable extinguishing agents: Carbon dioxide
 Water haze or fog.
 Water spray
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- · Additional information No further relevant information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Avoid formation of dust.
Product forms slippery surface when combined with water.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Pick up mechanically. Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

- Weak acid solution
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Keep receptacles tightly sealed.

· Information about fire - and explosion protection: No special measures required.

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		(Contd. of page 4)
· 7.2 Conditio	ns for safe storage, including any incompatibilities	
· Storage:		
	ts to be met by storerooms and receptacles: naterial for receptacle: aluminium.	
	laterial for receptacle: steel.	
	laterial for receptacle: glass or ceramic.	
	humidity and water.	
	about storage in one common storage facility:	
	together with acids.	
Store away f	rom foodstuffs.	
Store away f		
	rmation about storage conditions:	
Store in cool	, dry conditions in well sealed receptacles.	
	is hygroscopic.	
	humidity and water. end use(s) No further relevant information available.	
· 7.5 Specific	end use(s) No further relevant information available.	
SECTION	8: Exposure controls/personal protection	
· Additional in	nformation about design of technical facilities: No further data; see	item 7.
· 8.1 Control	parameters	
	with limit values that require monitoring at the workplace:	
Not required.		
1310-73-2 so	odium hydroxide	
PEL (USA)	Long-term value: 2 mg/m ³	
REL (USA)	Short-term value: C 2 mg/m ³	
TLV (USA)	Short-term value: C 2 mg/m ³	
. ,	Short-term value: C 2 mg/m ³	
, ,	urther relevant information available.	
	urther relevant information available.	
 Additional in 	formation: The lists valid during the making were used as basis.	
· 8.2 Exposur	e controls	
	otective equipment:	
	tective and hygienic measures:	
	ecautionary measures are to be adhered to when handling chemicals.	
	rom foodstuffs, beverages and feed.	
	remove all soiled and contaminated clothing. before breaks and at the end of work.	
	t with the eyes and skin.	
	e dust / smoke / mist.	
 Respiratory 		
	under normal conditions of use.	
Use suitable	respiratory protective device in case of insufficient ventilation.	(Contd. on page 6)
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Trade name: Crystal Drain Opener v.1 (Contd. of page 5) For spills, respiratory protection may be advisable. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves Butyl rubber, BR Nitrile rubber, NBR Neoprene gloves **PVC** gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Contact lenses should not be worn. Safety glasses Body protection: Alkaline resistant protective clothing · Limitation and supervision of exposure into the environment No further relevant information available. · Risk management measures See Section 7 for additional information. No further relevant information available. **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Solid Colour: White

 Odour: Odourless
 Odour threshold: Not determined.
 pH-value: Not applicable.
 Change in condition Melting point/Melting range: 606,2 °F / 319 °C

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Boiling point/Boiling range:	Undetermined.	(Contd. of page 6)
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Product is not flammable.	
· Auto/Self-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapour pressure at 800 °C:	3,5 hPa	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1,00 g/cm ³ Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with water at 20 °C: 	420 g/l	
· Partition coefficient (n-octanol/water)	: Not determined.	
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not applicable. Not applicable. No further relevant information available.	

SECTION 10: Stability and reactivity

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions Strong exothermic reaction with acids. Reacts with various metals. Reacts with humid air. Corrosive action on metals. Reacts with halogenated compounds. Heating occurs when water is added. Reacts with carbon dioxide. Reacts with inorganic acid chlorides. Reacts with fats and oils.
10.4 Conditions to avoid Moisture.

• **10.5 Incompatible materials:** No further relevant information available.

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· 10.6 Hazardous decomposition products: Possible in traces.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:

- 1310-73-2 sodium hydroxide
- Oral LD50 2000 mg/kg (rat)

Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitisation: No sensitising effects known.
- · Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

The product causes an alteration of the pH-value within the testing system. The result refers to the non-neutralised sample.

- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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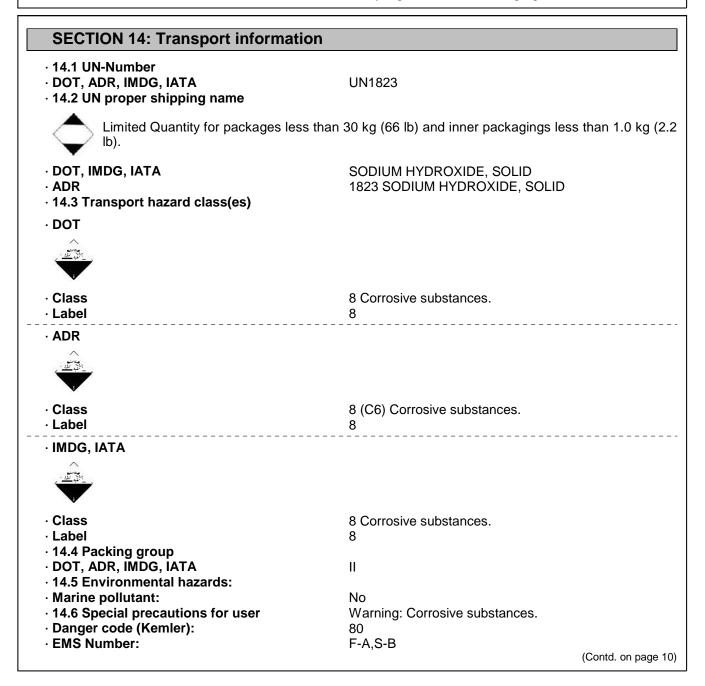
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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.



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 Segregation groups 14.7 Transport in bulk according to Annex II or MARPOL73/78 and the IBC Code 	(Contd. of page 9) Alkalis of Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Transport category Tunnel restriction code UN "Model Regulation": 	1 kg 2 E UN1823, SODIUM HYDROXIDE, SOLID, 8, II

SECTION 15: Regulatory information

 \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot United States (USA)

· SARA · Section 355 (extremely hazardous substances):

· Section 355 (extremely hazardous substances):	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
· TSCA (Toxic Substances Control Act):	
Substance is listed.	
· Proposition 65 (California):	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity:	
Substance is not listed.	
· Carcinogenic Categories	
· EPA (Environmental Protection Agency)	
Substance is not listed.	
· IARC (International Agency for Research on Cancer)	
Substance is not listed.	
· TLV (Threshold Limit Value established by ACGIH)	
Substance is not listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
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· Canadian Domestic Substances List (DSL)

Substance is listed.

· Canada

· Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 1%)

Substance is listed.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

Substance is not listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com