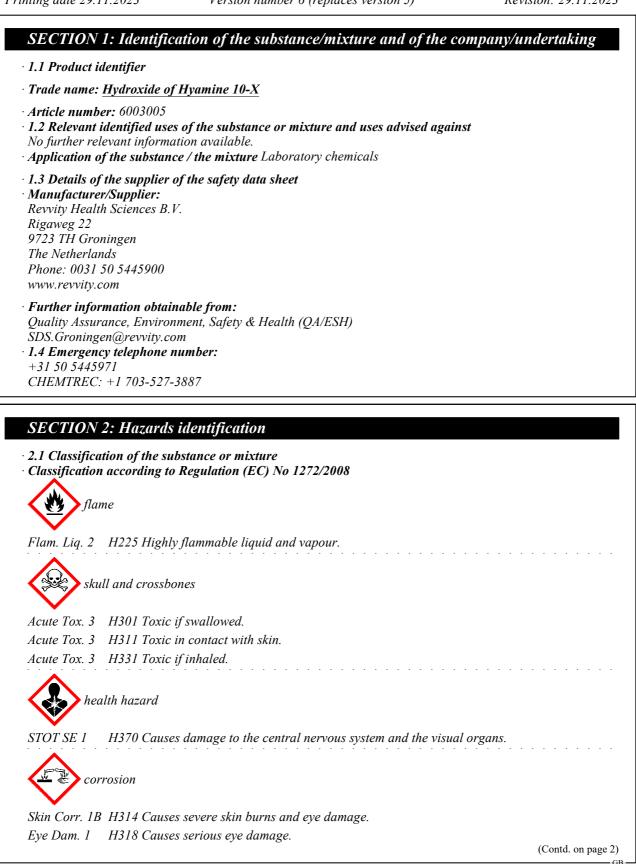
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# Safety data sheet according to 1907/2006/EC, Article 31

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#### Trade name: Hydroxide of Hyamine 10-X

(Contd. of page 1) · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS05 GHS06 GHS02 GHS08 · Signal word Danger · Hazard-determining components of labelling: methanol Quaternary Ammonium Hydroxide · Hazard statements Highly flammable liquid and vapour. H225 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. *H314* H370 Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. *P301+P312* 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. · 2.3 Other hazards · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

### **SECTION 3:** Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture: consisting of the following components.

CAS: 67-56-1	methanol	40-60%
EINECS: 200-659-6	🚸 Flam. Liq. 2, H225	
Index number: 603-001-00-X	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: $C \ge 10$ %	
	STOT SE 2; H371: $3\% \le C < 10\%$	
CAS: 498-77-1	Quaternary Ammonium Hydroxide Skin Corr. 1B, H314 Acute Tox. 4, H302	40-60%

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• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4:** First aid measures

• 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

#### • After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5:** Firefighting measures

• 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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.

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## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

### 67-56-1 methanol

WEL Short-term value: 333 mg/m<sup>3</sup>, 250 ppm Long-term value: 266 mg/m<sup>3</sup>, 200 ppm Sk

· Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Hand protection



EN ISO 374-1/Type B

# · Material of gloves

Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0.2 \text{ mm}$ Breakthrough time: > 120 minutesThe 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.

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· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection

×

Tightly sealed goggles

9.1 Information on basic physical and chem	ical properties	
General Information		
Colour:	Colourless	
Odour:	Characteristic	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boil		
range	65 °C (149 °F)	
Lower and upper explosion limit		
Lower:	5.5 Vol % (67-56-1 methanol)	
Upper:	44.0 Vol % (67-56-1 methanol)	
Flash point:	18 °C (64.4 °F)	
Auto-ignition temperature:	470 °C (878 °F)	
Solubility		
water:	Fully miscible.	
Vapour pressure at 20 °C (68 °F):	95 hPa (71.3 mm Hg)	
Density and/or relative density		
<i>Density at 20 °C (68 °F):</i>	0.93 g/cm <sup>3</sup> (7.76085 lbs/gal)	
9.2 Other information		
Appearance:		
Form:	Fluid	
Important information on protection of hea	lth and	
environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product is not explosive. However, formation o	
	explosive air/vapour mixtures are possible.	
Information with regard to physical hazard	classes	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Highly flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm		
gases in contact with water	Void	



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· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Nitrogen oxides
- Carbon monoxide

### **SECTION 11:** Toxicological information

#### · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

67-56-1 methanol

Dermal LD50 5628 mg/kg (Rabbit)

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure
- Causes damage to the central nervous system and the visual organs.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

## **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.

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- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Must not reach sewage water or drainage ditch undiluted or unneutralised.

## **SECTION 13: Disposal considerations**

• 13.1 Waste treatment methods

- · Recommendation Must be specially treated adhering to official regulations.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2924
14.2 UN proper shipping name	
ADR	2924 FLAMMABLE LIQUID, CORROSIVE, N.O., (METHANOL, quaternary ammonium hydroxide)
· IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S
	(METHANOL, quaternary ammonium hydroxide)
IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.,
	(METHANOL, QUATERNARY AMMONIU HYDROXIDE)
14.3 Transport hazard class(es)	
ADR	
class	3 (FC) Flammable liquids.
Class Class Label	3 (FC) Flammable liquids. 3+8
Label	

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·Label	3+8	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards: · Marine pollutant:	No	
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids. 368 F-E,S-C	
• 14.7 Maritime transport in bulk according to IM instruments	10 Not applicable.	
· Transport/Additional information:		
· ADR · Tunnel restriction code	D/E	
· UN "Model Regulation":	UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), I	

# SECTION 15: Regulatory information

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

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

• **Reportable explosives precursors** None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 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.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

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## Trade name: Hydroxide of Hyamine 10-X

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H370 Causes damage to organs.
· Department issuing SDS: Quality Assurance, Environment, Safety & Health (QA/ESH)
Contact: SDS.Groningen@revvity.com
· Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 5: Acute toxicity – Category 5 Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
• * Data compared to the previous version altered.