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Safety Data Sheet according to WHS Regulations

Printing date 29.11.2023

Version number 6

Revision: 29.11.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

- Trade name: Hydroxide of Hyamine 10-X
- Article number: 6003005
- · Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Revvity Health Sciences B.V. Rigaweg 22 9723 TH Groningen The Netherlands Phone: 0031 50 5445900 www.revvity.com Australian contact address: Revvity Level 2 ,Building C, Tenancy A, 211 Wellington Road, Mulgrave, VIC 3170 Australia Phone:+613 9212 8500

Further information obtainable from: Quality Assurance, Environment, Safety & Health (QA/ESH) SDS.Groningen@revvity.com Emergency telephone number:

Emergency telephone number. +31 50 5445971 *CHEMTREC (within Australia)* +(61)-290372994 *CHEMTREC (from outside Australia)* +1 703-527-3887

2 Hazard(s) Identification

· Classification of the substance or mixture

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

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(Contd. of page 1) GHS08 health hazard STOT SE 1 H370 Causes damage to the central nervous system and the visual organs. GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. · Label elements · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS02 GHS05 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labelling: methanol (40-60 %) Quaternary Ammonium Hydroxide (40-60 %) · Hazard statements H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H370 Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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. · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Mixture: consisting of the following components.

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67-56-1	methanol	40-60
	 Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 	
498-77-1	Quaternary Ammonium Hydroxide Acute Tox. 3, H301 Skin Corr. 1B, H314; Eye Dam. 1, H318	40-60

4 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.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- *Protective equipment: Mouth respiratory protective device.*

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- · 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.

• 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.

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· 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.

7 Handling and Storage

· Handling:

· 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.

· 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.
- *Specific end use(s)* No further relevant information available.

8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see section 7.

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

67-56-1 methanol

NES Short-term value: 328 mg/m³, 250 ppm

Long-term value: 262 mg/m³, 200 ppm Sk

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

• 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.

• Protection of hands:



Protective gloves

EN ISO 374-1/Type B • Material of gloves Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.2 mm Breakthrough time: > 120 minutes

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(Contd. of page 4) 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	inge: 65 °C
Flash point:	18 °C
Auto-ignition temperature:	470 °C
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ail vapour mixtures are possible.
Explosion limits:	1 1
Lower:	5.5 Vol %
Upper:	44.0 Vol %
Vapour pressure at 20 °C:	95 hPa
Density at 20 °C:	0.93 g/cm^3
Solubility in / Miscibility with	Ŭ
water:	Fully miscible.
Other information	No further relevant information available.

10 Stability and Reactivity

· Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:

Nitrogen oxides

Carbon monoxide

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11 Toxicological Information

· Information on toxicological effects

- Acute toxicity
- *Toxic if swallowed. Toxic in contact with skin. Toxic 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.

12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- 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.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation Must be specially treated adhering to official regulations.
- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

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Trade name: Hydroxide of Hyamine 10-X

• *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

UN-Number	
ADG, IMDG, IATA	UN2924
UN proper shipping name	
ADG	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.
IMDG	(METHANOL, quaternary ammonium hydroxide) FLAMMABLE LIQUID, CORROSIVE, N.O. (METHANOL, quaternary ammonium hydroxide)
IATA	FLAMMABLE LIQUID, CORROSIVE, N.O. (METHANOL, QUATERNARY AMMONIU HYDROXIDE)
Transport hazard class(es)	
ADG	
Class Label	3 (FC) Flammable liquids. 3+8
Class	3 Flammable liquids.
Label	3+8
Label Packing group ADG, IMDG, IATA	3+8 II
Packing group ADG, IMDG, IATA Environmental hazards:	II
Packing group ADG, IMDG, IATA	
Packing group ADG, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user	II No Warning: Flammable liquids.
Packing group ADG, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler code):	II No Warning: Flammable liquids. 368
Packing group ADG, IMDG, IATA Environmental hazards: Marine pollutant:	II No Warning: Flammable liquids. 368 F-E,S-C
Packing group ADG, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler code): EMS Number: Transport in bulk according to Annex II of Mar	II No Warning: Flammable liquids. 368 F-E,S-C pol
Packing group ADG, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler code): EMS Number: Transport in bulk according to Annex II of Mar and the IBC Code	II No Warning: Flammable liquids. 368 F-E,S-C pol



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S5, S6, S10

Trade name: Hydroxide of Hyamine 10-X

· UN "Model Regulation":

UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL, Quaternary Ammonium Hydroxide), 3 (8), II

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

67-56-1 methanol

Standard for the Uniform Scheduling of Medicines and Poisons

67-56-1 methanol

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

• Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: methanol (40-60 %)

Quaternary Ammonium Hydroxide (40-60 %)

- Hazard statements
- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H370 Causes damage to the central nervous system and the visual organs.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.

· Directive 2012/18/EU

• Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

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

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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. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H331 Toxic if inhaled. 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 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 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.