

Printing date 11/28/2023 Reviewed on 11/28/2023

### 1 Identification

· Product identifier

· Trade name: Solvable

· Article number: 6NE9100

- · 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

· Information department:

Quality Assurance, Environment, Safety & Health (QA/ESH)

SDS.Groningen@revvity.com

Emergency telephone number:

+31 50 5445971

CHEMTREC (within U.S.A. and Canada) 1-800-424-9300

CHEMTREC (from outside U.S.A. and Canada) +1703-527-3887

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



CHS05

- · Signal word Danger
- Hazard-determining components of labeling:

Amines, C12-16-alkyldimethyl, N-oxides

Sodium hydroxide

C11-15- secondary, ethoxylated alcohol

· Hazard statements

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P273

Avoid release to the environment.

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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/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture: consisting of the following components.

· Dangerous	components:	
85408-49-7	Amines, C12-16-alkyldimethyl, N-oxides  Eye Damage 1, H318 Aquatic Chronic 2, H411 Skin Irritation 2, H315	2.5-10%
68131-40-8	C11- 15- secondary, ethoxylated alcohol  Eye Damage 1, H318  Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315	2.5-10%
1310-73-2	Sodium hydroxide Corrosive to Metals 1, H290; Skin Corrosion 1A, H314	0-2.5%
· Non-Dange	rous components	
7732-18-5 1	water, distilled, conductivity or of similar purity	80-100%

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

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 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

- · Extinguishing media
- · Suitable extinguishing agents:

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

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- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Dilute with plenty of water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- · Reference to other sections No dangerous substances are released.
- Protective Action Criteria for Chemicals

· PAC-1:	
1310-73-2 Sodium hydroxide	0.5 mg/m
· PAC-2:	
1310-73-2 Sodium hydroxide	5 mg/m
PAC-3:	•
1310-73-2 Sodium hydroxide	50 mg/m

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: The product is not flammable.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment: Not required.

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· Protection of hands:

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Protective gloves

EN ISO 374-1/Type B

· Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.2$  mm

Breakthrough time: > 120 minutes

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:



Tightly sealed goggles

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic

• pH-value at 20 °C (68 °F): 11.5

· Change in condition

**Melting point/Melting range:** Undetermined. **Boiling point/Boiling range:** 100 °C (212 °F)

• Flash point: Not applicable.

• **Ignition temperature:** Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· Vapor pressure at 20 °C (68 °F): 23.0 hPa (17.3 mm Hg)

• **Density at 20 °C (68 °F):** 1.017 g/cm³ (8.48687 lbs/gal)

· Solubility in / Miscibility with

Water: Fully miscible.

• Other information No further relevant information available.

#### 10 Stability and reactivity

· Reactivity No further relevant information available.

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- · Chemical stability
- 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: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
ATE (Acut	te Toxicity	Estimate)	
Oral	LD50	12,476 mg/kg	
Inhalative	LC50/4 h	35.9 mg/l (Rat)	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

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

US



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## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number ADR, IMDG, IATA	1824
UN proper shipping name IMDG, IATA	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	
ADR	
S S S S S S S S S S S S S S S S S S S	
Class	8 (C5) Corrosive substances
Label	8
Class	9 Compains and administration
Class	8 Corrosive substances
Label	8
Packing group ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Ken	nler code): 80
EMS Number:	F-A,S-B
Transport in bulk according to Ant MARPOL73/78 and the IBC Code	nex II of Not applicable.
UN "Model Regulation":	UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
68131-40-8	C11- 15- secondary, ethoxylated alcohol	ACTIVE
1310-73-2	Sodium hydroxide	ACTIVE

#### · Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

## · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### · TLV (Threshold Limit Value)

None of the ingredients is listed.

## · MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS05

#### · Signal word Danger

#### · Hazard-determining components of labeling:

Amines, C12-16-alkyldimethyl, N-oxides

Sodium hydroxide

C11-15- secondary, ethoxylated alcohol

#### · Hazard statements

H314 Causes severe skin burns and eye damage.

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H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

*P273* Avoid release to the environment.

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/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

### 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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: Quality Assurance, Environment, Safety & Health (QA/ESH)
- · Contact: SDS. Groningen@revvity.com
- · Date of preparation / last revision 11/28/2023
- · 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Corrosive to Metals 1: Corrosive to metals – Category 1

Acute Toxicity - Oral 4: Acute toxicity - Category 4

Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

· \* Data compared to the previous version altered.