

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 08.11.2021

Version: 7

Revision: 08.11.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: **FORMULA 50 RTU (Listed NSF A8: n°150808)**

Article number: 93250001

UFI: FHRT-QQEQ-FN8Y-8Y4P

1.2 Relevant identified uses of the substance or mixture and uses advised against

Life cycle stages PW Widespread use by professional workers

Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Cleaning agent

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

ZEP ITALIA SRL

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20123 Milano (MI) - Italy;

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B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

#### 1.4 Emergency telephone number:

NHS +44 0845 46 47 (England or Wales); +44 08454 24 24 24 (Scotland)

emergency number (europe): 112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

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

Eye Dam. 1 H318 Causes serious eye damage.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS05

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- **Signal word** *Danger*
- **Hazard statements**  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **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 of substances listed below with nonhazardous additions.

- **Dangerous components:**

|   |  |             |
|---|--|-------------|
| CAS: 34590-94-8<br>EINECS: 252-104-2<br>Reg.nr.: 01-2119450011-60-xxxx    | 1-(2-Methoxypropoxy)-2-propanol<br>substance with a Community workplace exposure limit   | 2.5-5%      |
| CAS: 68955-55-5<br>EC number: 931-341-1<br>Reg.nr.: 01-2119489396-21-xxxx | Amines, C12-18(even numbered)-alkyldimethyl, N-oxides<br>⚠ Eye Dam. 1, H318<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411<br>⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315 | ≥0.1-<0.25% |

- **Additional information:**

Ingredients according to Detergents Regulation 648/2004/EC

|   |     |
|---|-----|
| EDTA and salts thereof, Nonionic surfactants, Anionic surfactants | <5% |
| Perfumes  |     |

- **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.  
Seek immediate medical advice.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Drink plenty of water and provide fresh air. Call for a doctor immediately.  
Do not induce vomiting; call for medical help 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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.

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- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.  
Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Keep contaminated washing water and dispose of appropriately.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, universal binders).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Keep receptacles tightly sealed.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** See exposure scenario

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol

|       |   |
|-------|---|
| IOELV | Long-term value: 308 mg/m <sup>3</sup> , 50 ppm |
| Skin  |   |

##### · **DNELs**

CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol

|            |   |                                   |
|------------|---|-----------------------------------|
| Oral       | DNEL Long term-systemic                   | 1.67 mg/kg human/day (consumer)   |
| Dermal     | DNEL Long term-systemic                   | 15 mg/kg human/day (consumer)     |
|            |   | 65 mg/kg human/day (worker)       |
| Inhalative | DNEL Long term-systemic mg/m <sup>3</sup> | 37.2 mg/m <sup>3</sup> (consumer) |
|            |   | 310 mg/m <sup>3</sup> (worker)    |

##### · **PNECs**

CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol

|                      |         |
|----------------------|---------|
| PNEC Freshwater mg/L | 19 mg/L |
|----------------------|---------|

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|                                  |            |
|----------------------------------|------------|
| PNEC Marinewater mg/L            | 1.9 mg/L   |
| PNEC Freshwater sediment         | 70.2 mg/Kg |
| PNEC Marine water sediment       | 7.02 mg/Kg |
| PNEC Intermittent release        | 190        |
| PNEC Soil                        | 2.74 mg/Kg |
| PNEC Sewage treatment Plant mg/L | 4,168 mg/L |

### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Ensure that washing facilities are available at the work place.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device only when aerosol or mist is formed.

· **Hand protection**



Protective gloves

· **Material of 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye/face protection**



Tightly sealed goggles

· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Green

· **Odour:**

Pleasant

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100 °C

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

Not determined.

· **Lower:**

Not determined.

· **Upper:**

Not applicable.

· **Flash point:**

Product is not selfigniting.

· **Auto-ignition temperature:**

Not determined.

· **Decomposition temperature:**

12.4

· **pH at 20 °C**

12.4

· **Viscosity:**

Not determined.

· **Kinematic viscosity**

0 mPas

· **Dynamic at 20 °C:**

· **Solubility**

Fully miscible.

· **water:**

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- |   |                         |
|---|-------------------------|
| · Partition coefficient n-octanol/water (log value) | Not determined.         |
| · Vapour pressure at 20 °C:                         | 23 hPa                  |
| · Density and/or relative density                   |                         |
| · Density at 20 °C:                                 | 1,005 g/cm <sup>3</sup> |
| · Relative density                                  | Not determined.         |
| · Vapour density                                    | Not determined.         |

**· 9.2 Other information**

- |   |  |
|---|--|
| · Appearance:   |  |
| · Form:   | Fluid  |
| · Important information on protection of health and environment, and on safety. |  |
| · Explosive properties:   | Product does not present an explosion hazard.<br>Not determined. |
| · Solvent content:  |  |
| · Organic solvents:   | 3.0 %  |
| · Swiss VOC:  | 2.98 %   |
| · Solids content:   | 0.5 %  |
| · Change in condition   |  |
| · Evaporation rate  | Not determined.  |

**· Information with regard to physical hazard classes**

- |   |      |
|---|------|
| · Explosives  | Void |
| · Flammable gases   | Void |
| · Aerosols  | Void |
| · Oxidising gases   | Void |
| · Gases under pressure  | Void |
| · Flammable liquids   | Void |
| · 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 flammable gases in contact with water | Void |
| · 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:** Do not store together with acids.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**· LD/LC50 values relevant for classification:****CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol**

|        |             |   |
|--------|-------------|---|
| Oral   | LD50        | >4,000 mg/kg (Rat)                        |
| Dermal | LD50        | 9,510 mg/kg (Rabbit)                      |
|        | LC50 / 48 h | 1.919 mg/ltr (Daphnia magna (water flea)) |

**CAS: 68955-55-5 Amines, C12-18(even numbered)-alkyldimethyl, N-oxides**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 1,064 mg/kg (Rat) |
|------|------|-------------------|

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EC 50 / 96 h 2.67 mg/ltr (fish)

- **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** Based on available data, the classification criteria are not met.
- **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**

CAS: 80-54-6 2-(4-tert-butylbenzyl) propionaldehyde

List II

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · **Aquatic toxicity:**

CAS: 34590-94-8 1-(2-Methoxypropoxy)-2-propanol

LC50 / 96 h &gt;10,000 mg/ltr (Pimephales promelas)

EC 50 / 72 H 1,000 (Senastrum capricornutum (Algae))

CAS: 68955-55-5 Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

EC 50 / 48 h 3.1 mg/ltr (Daphnia magna (water flea))

EC 50 / 72 H 0.205 /mg/l (Senastrum capricornutum (Algae))

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**

#### · **General notes:**

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations
- **Uncleaned packaging:**
- **Recommendation:**
- Disposal in accordance with administrative provisions
- Dispose of packaging according to regulations on the disposal of packagings.

## SECTION 14: Transport information

### · 14.1 UN number or ID number

· **ADR, IMDG, IATA**

UN1824

### · 14.2 UN proper shipping name

· **ADR**

1824 SODIUM HYDROXIDE SOLUTION

· **IMDG, IATA**

SODIUM HYDROXIDE SOLUTION

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· **14.3 Transport hazard class(es)**· **ADR**

- **Class** 8 (C5) Corrosive substances.
- **Label** 8

· **IMDG, IATA**

- **Class** 8 Corrosive substances.
- **Label** 8

· **14.4 Packing group**

- **ADR, IMDG, IATA** III

- **14.5 Environmental hazards:** Not applicable.

- **14.6 Special precautions for user** Warning: Corrosive substances.
- **Hazard identification number (Kemler code):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** Alkalies
- **Stowage Category** A
- **Segregation Code** SG35 Stow "separated from" SGG1-acids

- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **Transport category** 3
- **Tunnel restriction code** E

- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":** UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

**SECTION 15: Regulatory information**

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

Reg. (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 2015/830 annex II of REACH;

Dir. 06/08 ADR – RID - IMDG - IATA;

Dir. 12/18 (Seveso III);

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

Reg (EC) n. 648/2004 - Detergents

- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS05

· **Signal word** Danger· **Hazard statements**

H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK    | 3.0        |

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 80-54-6 2-(4-tert-butylbenzyl) propionaldehyde

· **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**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008** Calculation method· **Department issuing SDS:**

Customer Service

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· **Contact:**

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· **Date of previous version:** 08.11.2021

· **Version number of previous version:** 6

· **Abbreviations and acronyms:**

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

WELL: The highest acceptable concentration

IOELV: Indicative occupational exposure limit values

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

· **\* Data compared to the previous version altered.**

EU