### SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## **RRE-570**

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

#### 1.1. Product identifier

Product name : RRE-570

**Registration number REACH** : Not applicable (mixture)

Product type REACH : Mixture

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

#### 1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

#### 1.2.2 Uses advised against

No uses advised against known

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

#### Supplier of the safety data sheet

Novatio\*

Industrielaan 5B

B-2250 Olen

**2** +32 14 25 76 40

₼ +32 14 22 02 66

info@novatio.be

\*NOVATIO is a registered trademark of Novatech International N.V.

#### Manufacturer of the product

Novatech International N.V.

Industrielaan 5B

B-2250 Olen

**2** +32 14 85 97 37

**4** +32 14 85 97 38

info@tec7.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

### 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

|          | CAS No<br>EC No         | Conc. (C) | Classification according to CLP | Note | Remark      |
|----------|-------------------------|-----------|---------------------------------|------|-------------|
| K / / // | 67953-76-8<br>267-956-0 | C≤30%     | Acute Tox. 4; H302              | (1)  | Constituent |

<sup>(1)</sup> For H-statements in full: see heading 16

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

#### After eve contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### 4.2.1 Acute symptoms

After inhalation:

No effects known

After skin contact:

No effects known.

After eye contact:

No effects known. **After ingestion:** 

Headache. Vomiting. Diarrhoea. Abdominal pain. Drowsiness.

#### 4.2.2 Delayed symptoms

No effects known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

#### 5.2. Special hazards arising from the substance or mixture

On heating/burning: release of toxic and corrosive gases/vapours e.g.: phosphorus oxides, carbon monoxide - carbon dioxide.

#### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

#### 5.3.2 Special protective equipment for fire-fighters:

 ${\bf Gloves.\ Protective\ clothing.\ Heat/fire\ exposure: compressed\ air/oxygen\ apparatus.}$ 

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

### **6.1.1** Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

### **6.2.** Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

#### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See heading 13.

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### SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Protect against frost. Keep out of direct sunlight. Keep container in a well-ventilated place. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

#### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

### 8.1.1 Occupational exposure

### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

#### **DNEL/DMEL - Workers**

(1-hydroxyethylidene)bisphosphonic acid, potassium salt

| Effect level (DNEL/DMEL) | Туре                                  | Value           | Remark |
|--------------------------|---------------------------------------|-----------------|--------|
| DNEL                     | Long-term systemic effects inhalation |                 |        |
|                          | Long-term systemic effects dermal     | 34 mg/kg bw/day |        |

### DNEL/DMEL - General population

(1-hydroxyethylidene)bisphosphonic acid, potassium salt

| Effect level (DNEL/DMEL)                   | Туре                              | Value            | Remark |
|--|-----------------------------------|------------------|--------|
| DNEL Long-term systemic effects inhalation |                                   | 2.95 mg/m³       |        |
|  | Long-term systemic effects dermal | 17 mg/kg bw/day  |        |
|  | Long-term systemic effects oral   | 1.7 mg/kg bw/day |        |
|  | Acute systemic effects oral       | 1.7 mg/kg bw/day |        |

#### PNEC

(1-hydroxyethylidene)bisphosphonic acid, potassium salt

| Compartments          | Value                  | Remark |
|-----------------------|------------------------|--------|
| Fresh water           | 0.068 mg/l             |        |
| Marine water          | 0.007 mg/l             |        |
| STP                   | 40 mg/l                |        |
| Fresh water sediment  | 136 mg/kg sediment dw  |        |
| Marine water sediment | 13.6 mg/kg sediment dw |        |
| Soil                  | 10 mg/kg soil dw       |        |
| Oral                  | 3.7 mg/kg food         |        |

#### 8.1.5 Control banding

If applicable and available it will be listed below.

#### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Respiratory protection not required in normal conditions.

### b) Hand protection:

Protective gloves against chemicals (EN 374).

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|                | Measured breakthrough time | Remark  | Protection index |
|----------------|----------------------------|---------|------------------|
| nitrile rubber | > 480 minutes              | 0.35 mm | Class 6          |

### c) Eye protection:

Eye protection not required in normal conditions.

#### d) Skin protection:

Protective clothing.

#### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Dhysical forms            | lianid   |  |
|---------------------------|--|--|
| Physical form             | Liquid   |  |
| Odour                     | Characteristic odour                                   |  |
| Odour threshold           | No data available in the literature                    |  |
| Colour                    | No data available on colour                            |  |
| Particle size             | Not applicable (liquid)                                |  |
| Explosion limits          | No data available in the literature                    |  |
| Flammability              | Not classified as flammable                            |  |
| Log Kow                   | Not applicable (mixture)                               |  |
| Dynamic viscosity         | 1 mPa.s ; 20 ℃   |  |
| Kinematic viscosity       | 1 mm²/s ; 40 °C  |  |
| Melting point             | 0 °C   |  |
| Boiling point             | 100 °C   |  |
| Evaporation rate          | 0.300 ; Butyl acetate                                  |  |
| Relative vapour density   | No data available in the literature                    |  |
| Vapour pressure           | No data available in the literature                    |  |
| Solubility                | Water ; complete                                       |  |
| Relative density          | 1.2 ; 20 °C  |  |
| Decomposition temperature | No data available in the literature                    |  |
| Auto-ignition temperature | No data available in the literature                    |  |
| Flash point               | No data available in the literature                    |  |
| Explosive properties      | No chemical group associated with explosive properties |  |
| Oxidising properties      | No chemical group associated with oxidising properties |  |
| рН                        | 6.0  |  |

#### 9.2. Other information

| Abcolute density  | 11170 kg/m³ · 20 °C | <b>.</b> |
|-------------------|---------------------|----------|
| lAbsolute density | 111/U K2/III . ZU C |          |

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Heating increases the fire hazard.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

**Precautionary measures** 

Keep away from naked flames/heat.

#### 10.5. Incompatible materials

No data available.

#### 10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours e.g.: phosphorus oxides, carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

## Acute toxicity

RRE-570

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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#### (1-hydroxyethylidene)bisphosphonic acid, potassium salt

| Route of exposure | Parameter | Method                 | Value         | Exposure time | Species                | Value              | Remark |
|-------------------|-----------|------------------------|---------------|---------------|------------------------|--------------------|--------|
|                   |           |                        |               |               |                        | determination      |        |
| Oral              |           | Equivalent to OECD 401 | 2850 mg/kg bw |               | Rat (male /<br>female) | Experimental value |        |
| Oral              |           |                        | category 4    |               |                        | Literature study   |        |

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

#### RRE-570

No (test)data on the mixture available
Judgement is based on the relevant ingredients

#### Conclusion

Not classified as irritating to the respiratory system Not classified as irritating to the skin

#### Respiratory or skin sensitisation

#### RRE-570

No (test)data on the mixture available Judgement is based on the relevant ingredients

#### Conclusion

Not classified as sensitizing for inhalation Not classified as sensitizing for skin

Not classified as irritating to the eyes

#### Specific target organ toxicity

#### RRE-570

No (test)data on the mixture available
Judgement is based on the relevant ingredients
Conclusion

Not classified for subchronic toxicity

#### Mutagenicity (in vitro)

#### RRE-570

No (test)data on the mixture available Judgement is based on the relevant ingredients

### Conclusion

Not classified for mutagenic or genotoxic toxicity

#### Mutagenicity (in vivo)

#### RRE-570

No (test)data on the mixture available Judgement is based on the relevant ingredients

#### <u>Conclusion</u>

Not classified for mutagenic or genotoxic toxicity

#### Carcinogenicity

### RRE-570

No (test)data on the mixture available Judgement is based on the relevant ingredients

#### Conclusion

Not classified for carcinogenicity

#### Reproductive toxicity

#### RRE-570

No (test)data on the mixture available Judgement is based on the relevant ingredients

#### Conclusion

Not classified for reprotoxic or developmental toxicity

#### **Toxicity other effects**

#### RRE-570

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

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No effects known.

## SECTION 12: Ecological information

#### 12.1. Toxicity

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No (test)data on the mixture available

#### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

#### 12.2. Persistence and degradability

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

RRE-570

#### Log Kow

| Method | Remark                   | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
|        | Not applicable (mixture) |       |             |                     |

(1-hydroxyethylidene)bisphosphonic acid, potassium salt

#### Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
|        |        | -3.5  |             | Experimental value  |

#### Conclusion

Does not contain bioaccumulative component(s)

#### 12.4. Mobility in soil

(1-hydroxyethylidene)bisphosphonic acid, potassium salt

#### (log) Koc

|  | Parameter | Method | Value | Value determination |
|--|-----------|--------|-------|---------------------|
|  | log Koc   |        | 4.22  | Experimental value  |

#### Conclusion

Contains component(s) that adsorb(s) into the soil

#### 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

#### 12.6. Other adverse effects

RRE-570

#### Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

### **SECTION 13: Disposal considerations**

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

#### **European Union**

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 30 (separately collected fractions (except 15 01): detergents other than those mentioned in 20 01 29). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

### 13.1.3 Packaging/Container

No data available

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## SECTION 14: Transport information

## Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

| 14.1. UN number  |   |
|--|---|
| Transport  | Not subject                             |
| 14.2. UN proper shipping name  |   |
| 14.3. Transport hazard class(es)   |   |
| Hazard identification number   |   |
| Class  |   |
| Classification code  |   |
| 14.4. Packing group  |   |
| Packing group  |   |
| Labels   |   |
| 14. <u>5. Environmental hazards</u>                                      |   |
| Environmentally hazardous substance mark                                 | no                                      |
| 14. <u>6. Special precautions for user</u>                               |   |
| Special provisions   |   |
| Limited quantities   |   |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code |   |
| Annex II of MARPOL 73/78   | Not applicable, based on available data |

### SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **European legislation:**

VOC content Directive 2010/75/EU

| vo  | OC content | Remark |
|-----|------------|--------|
| 0 % |            |        |

Ingredients according to Regulation (EC) No 648/2004 and amendments

15-30% phosphonates

# National legislation Belgium RRE-570

No data available

### **National legislation The Netherlands**

| Waterbezwaarlijkheid | B (4); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|
|----------------------|---|

#### **National legislation France**

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No data available

#### **National legislation Germany**

| WGK   | 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |  |  |  |  |
|---|--|--|--|--|--|
| (1-hydroxyethylidene)bisphosphonic acid, potassium salt |  |  |  |  |  |
| TA-Luft   | 5.2.1  |  |  |  |  |

## National legislation United Kingdom

RRE-570

No data available

### Other relevant data

RRE-570

No data available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

### Full text of any H-statements referred to under heading 3:

H302 Harmful if swallowed.

(\*) INTERNAL CLASSIFICATION BY BIG ADI Acceptable daily intake **AOEL** Acceptable operator exposure level

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

**DMEL** Derived Minimal Effect Level DNEL Derived No Effect Level EC50 Effect Concentration 50 %

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ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 % LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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