SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

10.03.2016

SECTION1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: RNA Extracol

Product Number: E3700

Brand: EURx

REACH No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: Laboratory chemicals. Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company: EURx Sp. z o.o.

80-297 Gdańsk, ul. Przyrodników 3

tel. (58) 524-06-97, (58) 341-74-23, godz. 8.00 -17.00, working days.

E-mail address: eurx@eurx.com.pl

1.4 Emergency telephone number

Fire brigade: 998

Whole day: 112

Outside Poland: Call your regional Poisons Information Service or call local Life Saving Service

2 SECTION2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity - repeated exposure (Category 2), H373
Chronic aquatic toxicity (Category 2), H411

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms

Signal word: Danger

Hazard statements:

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements:

EUH032 Contact with acids liberates very toxic gas.

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Rinse mouth.
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.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 SECTION3: Composition/information on ingredients

3.1 Components: none

3.2 Mixtures

Synonyms: trizol

Hazardous components according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Phenol CAS No 108-95-2 EC No 203-632-7 Index No 604-001-00-2	Acute Tox. 3; Skin Corr. 1B; Muta. 2; STOT RE 2; Aquatic Chronic 2; H301, H331, H311, H314, H341, H373, H411 Concentration limits: >= 3 %: Skin Corr. 1B, H314; 1 - < 3 %: Skin Irrit. 2, H315; 1- < 3 %: Eye Irrit. 2, H319;	>= 50 - < 70

Component	Classification	Concentration
Guanidinium thiocyanate Nr CAS 593-84-0 EC No 209-812-1 Index No 615-004-00-3	Xn; R20/21/22, R32, R52-R53 C; R34 Acute Tox. 4; Skin Corr. 1C; Aquatic Chronic 3; H302, H332, H312, H314, H412	>= 30 - < 50

For explanation of abbreviations see section 16.

4 SECTION4: First aid measures

4.1 Description of first aid measures

General advice

Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Consult a physician.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.
If symptoms persist, call a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water while removing all contaminated clothes and shoes.
Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 SECTION5:Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon oxides
Nitrogen oxides (NOx)
Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

In the event of fire and/or explosion do not breathe fumes.

6 SECTION6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

7 SECTION7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage. Do not store near acids. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

108-95-2 phenol

ACGIH TLV	19 mg/m³, 5 ppm Skin; BEI
NIOSH REL	Short-term value: C 60* mg/m³, C 15.6* ppm Long-term value: 19 mg/m³, 5 ppm *15-min
OSHA PEL	19 mg/m³, 5 ppm, Skin

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye protection

Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection Remarks

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Protective gloves complying with EN 374.

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Acid-resistant protective clothing Footwear protecting against chemicals

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 SECTION9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: violet liquid
b) Odour	characteristic
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	79 °C - closed cup
h) Evapouration rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	0,47 hPa
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	soluble
o) Partition coefficient: noctanol/water	no data available
p) Auto-ignition temperature	not determined
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2 Other safety information
no data available

10 SECTION10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Stable under recommended storage conditions.
Hazardous decomposition products formed under fire conditions.
Thiocyanates can develop poisonous gas in contact with strong acids.
Keep away from oxidizing agents, and acidic or alkaline products.

10.4 Conditions to avoid
Heat, flames and sparks. Light.

10.5 Incompatible materials
Strong oxidizing agents, Strong bases, Strong acids, Metals

10.6 Hazardous decomposition products
Other decomposition products - Hydrogen cyanide (hydrocyanic acid) In the event of fire: see section 5

11 SECTION11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Primary irritant effect:
on the skin: Caustic effect on skin and mucous membranes.
on the eye: Strong caustic effect.

Carcinogenicity
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest.

12 SECTION12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
Product:
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
Toxic to aquatic life with long lasting effects.

13 SECTION13: Disposal considerations
13.1 Waste treatment methods
Product:
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.
Do not re-use empty containers.

14 SECTION14: Transport information
14.1 UN number
ADR/RID: 2821 IMDG: 2821 IATA: 2821
14.2 UN proper shipping name
ADR/RID: PHENOL SOLUTION
IMDG: PHENOL SOLUTION
IATA: Phenol solution
14.3 Transport hazard calss(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
14.4 Packing group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: yes IMDG Marine pollutant: yes IATA: no
14.6 Special precautions for user
For personal protection see section 8.

15 SECTION15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2 Chemical Safety Assessment
No data available

16 SECTION16: Other information

Full text of H-Statements

H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled
H302:	Harmful if swallowed.
H311	Toxic in contact with skin.
H312:	Harmful in contact with skin.
H314:	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332:	Harmful if inhaled.
H412:	Harmful to aquatic life with long lasting effects.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

Futher information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. EURx Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.