

Safety data sheet

according to 1907/2006/EC, Article 31

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1. Identification of the substance/mixture and of the company/undertaking

• Product identifier

- Trade name: EXTRAzol
 - Article number: EM30-100, EM30-200, EM30-S
 - Hazardous components: Guanidine thiocyanate, Phenol
 - CAS number : 593-84-0 (Guanidine thiocyanate), 108-95-2 (Phenol)
 - EC number: 203-632-7 (Phenol)
 - Relevant identified uses of the substance or mixture and uses advised against: *no data available*
 - Application of the substance / the preparation: *Molecular biology, Biochemistry*
- Components: EXTRAzol

• Details of the supplier of the safety data sheet

- Manufacturer/supplier:
BLIRT S.A.
Trzy Lipy 3/1.38
80-172, Gdansk
orders@blirt.eu
- Emergency telephone number: 112

2. Hazards identification

• Classification of the substance or mixture

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



GHS05

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



GHS06

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08

Muta. 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

- The substance is classified and labelled according to the CLP regulation.*

- **Hazard pictograms**



- **Signal word:** *Danger*

- **Hazard-determining components of labeling:** *Phenol, Guanidine thiocyanate*

- **Hazard statements:**

- H314 Causes severe skin burns and eye damage.*

- H301 Toxic if swallowed.*

- H311 Toxic in contact with skin.*

- H331 Toxic if inhaled.*

- H341 Suspected of causing genetic defects.*

- H373 May cause damage to organs through prolonged or repeated exposure.*

- **Precautionary statement(s):**

- Prevention:**

- P264** Wash hands thoroughly after handling.

- P270** Do not eat, drink or smoke when using this product.

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

- P260** Do not breathe dust/fumes/gas/mist/vapours/spray.

- P271** Use only outdoors or in a well-ventilated area.

- P284** In case of inadequate ventilation wear respiratory protection.

- Response:**

- P301+P310 P330** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

- Rinse mouth.

- P302+P352 P312** IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

- P361 P363** Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

- P304+P340 P310** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

- 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 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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

P308+P313 If exposed: Call a POISON CENTER or doctor/physician.

Storage:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

- **Other hazards**
 - Not applicable.

3. Composition/information on ingredients

– **Chemical characterization:** *Mixture*

Dangerous ingredients		
CAS: 593-84-0 EINECS: 209-812-1	<i>Guanidine thiocyanate</i> Acute Tox. 4, H302; Acute Tox. 4 H312; Acute Tox. 4 H332; Aquatic Chronic 3 H412	20-30 %
CAS: 137-16-6 EINECS: 205-281-5	<i>Phenol</i> Acute Tox. 3 H301; Acute Tox. 3 H311; Acute Tox. 3 H331; Skin Corr 1B H314; Muta. 2 H341; STOT RE 2 H373	40-50%

4. First aid measures

- **Description of first aid measures**
 - **General information:** *Consult a physician. Show this safety data sheet to the doctor in attendance.*
 - **After inhalation:** *Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*
 - **After skin contact:** *Wash with soap and plenty of water. Immediately remove any clothing soiled by the product. Seek medical treatment.*
 - **After eye contact:** *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
 - **After swallowing:** *make victim drink water (maximum of 2 drinking glasses). Seek medical treatment.*
- **Information for doctor**
 - **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 11*
 - **Indication of any immediate medical attention and special treatment needed:** *No further relevant information available.*

5. Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:** *water spray, CO₂ or powder. Fight larger fires with water spray or alcohol resistant foam.*
- **Special hazards arising from the substance or mixture**
 - **Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:** *Nitrogen oxides (NO_x), carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...)*
- **Advise for firefighters**
 - **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** *Avoid formation of dust. Do not inhale dust. Mount respiratory protective device. Avoid substance contact. Ensure adequate ventilation.*
- **Environmental precautions:** *Do not allow to enter sewers/surface or ground water.*
- **Methods and material for containment and cleaning up:** *Pick up mechanically. Avoid generation of dusts. Dispose of the material collected according to regulations. Ensure adequate ventilation. Clean up affected area.*

7. Handling and storage

- **Handling**
 - **Precautions for safe handling:** *Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Any unavoidable deposit of dust must be regularly removed.*
- **Conditions for safe storage, including any incompatibilities**
 - **Requirements to be met by storerooms and receptacles:** *No special requirements.*
 - **Information about storage in one common storage facility:** *Do not store with acids.*
 - **Further information about storage conditions:** *Keep container sealed.*
 - **Recommended storage temperature:** *+4°C*
 - **Storage class:** *10-13*
 - **Specific end use(s):** *No further relevant information available.*

8. Exposure controls/personal protection

• Control parameters

– **Ingredients with limit values that require monitoring at the workplace:** *Not required.*

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

• Exposure controls

– **Personal protective equipment:**

- **General protective and hygienic measures:** *Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Vacuum clean contaminated clothing. Do not blow or brush off contamination. Avoid contact with the eyes and skin. Change contaminated clothing.*
- **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. Filter P3.*
- **Protection of hands:**
Protective gloves – *the glove material has to be impermeable and resistant to the product/the substance/the preparation.*
 - *Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation:*
 - **Material of gloves:** *the selection of 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 observed.*
 - **For the permanent contact gloves made of the following materials are suitable:** *Nitrile rubber, NBR. Recommended thickness of the material $\geq 0,11$ mm. Value for the permeation: Level ≥ 480 min.*
- **Eye protection:** *Safety glasses.*
- **Body protection:** *Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.*

9. Physical and chemical properties

• Information on basic physical and chemical properties

– **Appearance:**

- **Form:** *Liquid*

– **Other information:** *No further relevant information available*

10. Stability and reactivity

- **Reactivity:** *no data available*
- **Chemical stability:** *no data available*
- **Thermal decomposition/conditions to be avoided:** *Light/strong heating.*
- **Possibility of hazardous reaction:** *no dangerous reactions known*
- **Conditions to avoid:** *no further relevant information available*
- **Incompatible materials:** *acids*
- **Hazardous decomposition product:** *See chapter 5*

11. Toxicological information

• Information on toxicological effects

- **Primary irritant effect:**
 - **On the skin:** *No data available*
 - **On the eye:** *No data available*
- **Sensitization:** *no sensitizing effects known*

12. Ecological information

- **Toxicity:** *no data available*
 - **Persistence and degradability:** *no further relevant information available*
 - **Bioaccumulative potential:** *no further relevant information available*
 - **Mobility in soil:** *no further relevant information available*
 - **Results of PBT and vPvB:** *not applicable*
 - **Other adverse effects:** *no further relevant information available*
- General notes:** *Water hazard class 2: hazardous for water. Do not allow to enter waters, waste water or soil.*

13. Disposal considerations

• Waste treatment methods

- **Recommendation:** *Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packaging (Recommendation):** *Disposal must be made according to official regulations.*
- **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

14. Transport information

- **UN-Number:**
 - **ADR, ADN, IMDG, IATA:** *not dangerous goods/not applicable*
- **UN proper shipping name:**

- **ADR, ADN, IMDG, IATA:** *not dangerous goods/not applicable*
- **Transport hazard class(es):**
 - **ADR, ADN, IMDG, IATA** *not dangerous goods/not applicable*
 - **Clasa:** *not dangerous goods/not applicable*
- **Packing group:**
 - **ADR, IMDG, IATA:** *not dangerous goods/not applicable*
- **Environmental hazards:**
 - **Marine pollutant:** *No*
- **Special precautions for users:** *not applicable*
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** *not applicable*
- **Transport/additional information:** *not dangerous according to the above specifications.*
- **UN „Model Regulation“:** *not dangerous goods/not applicable*

15. Regulatory information

- **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.