

## TM 743 - INORGANIC SALT MEDIUM (MODIFIED RAGGIOS MEDIUM)

### SECTION 1: PRODUCT IDENTIFICATION

**PRODUCT NAME:** INORGANIC SALT MEDIUM (MODIFIED RAGGIOS MEDIUM)

**PRODOUCT CODE:** TM 743

**REACH REGISTRATION NUMBER:** This product is a mixture. Reach registration number is not available for this mixture

**RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:**

Relevant identified uses: Laboratory Chemicals, Analytical Purpose, Biochemical Analysis For InVitro Diagnostic Use

### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

**Label elements**

Labeling according to Regulation (EC) No.1272/2008

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other hazards** None

### SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

**Mixture**

Component	Classification	Concentration
<b>Calcium chloride, 6H2O</b>		
CAS No. : 7774-34-7	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=10.0 - <=20.0%

Component	Classification	Concentration
<b>Potassium iodide</b>		
CAS No. : 7681-11-0 EC No. : 231-659-4	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.01 - <=0.1%

Component	Classification	Concentration
<b>Boric acid</b>		
CAS No. : 10043-35-3 EC No. : 233-139-2 Index-No : 005-007-00-2	As Per EC Regulation 1272/2008 Repr.Tox. 1A, 1B H360	>=0.01 - <=0.1%



Component	Classification	Concentration
<b>Manganese sulphate</b>		
CAS No. : 10034-96-5 EC No. : 232-089-9 Index-No : 025-003-00-4	As Per EC Regulation 1272/2008 STOT RE 2; Aquatic Chronic 2 H373; H411	>=0.1 - <=1.0%

Component	Classification	Concentration
<b>Zinc sulphate heptahydrate</b>		
CAS No. : 7446-20-0 EC No. : 231-793-3 Index-No : 030-006-00-9	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Dam. 1; Aquatic Chronic 1 H302; H318; H410	>=0.01 - <=0.1%

#### SECTION 4: FIRST AID MEASURES

##### Description of first aid measures

##### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

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

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available.

##### Indication of immediate medical attention and special treatment needed

No data available

#### SECTION 5: FIRE FIGHTING MEASURES

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Unsuitable extinguishing media

No data available

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

Carbon oxides, Hydrogen chloride gas, Sodium oxides

##### Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

##### Further information

No data available

#### SECTION 6: ACCIDENTAL RELEASE MEASURES



**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. 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.

**Recommended Storage Temperature:**

On receipt store between 10-25 °C

**Specific end uses**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Components with workplace control parameters

**Exposure controls**

**Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

**Personal protective equipment**

**Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

**Eye/face protection**

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection Handle with gloves.**

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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).

**Environment exposure controls**

Do not empty into drains.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

a) Appearance Form	:	White to Light yellow homogenous free flowing powder
b) Odour	:	No data available
c) Odour Threshold	:	No data available
d) pH	:	
e) Melting point/freezing point	:	No data available
f) Initial boiling point and boiling range	:	No data available
g) Flash point	:	No data available
h) Evaporation rate	:	No data available
i) Flammability (solid, gas)	:	No data available
j)		
k) Upper/lower flammability or explosive limits	:	No data available
l) Vapour pressure	:	No data available
m) Vapour density	:	No data available
n) Relative density	:	No data available
o) Water solubility	:	No data available
p) Partition coefficient: n-octanol/water	:	No data available
q) Auto-ignition temperature	:	No data available
r) Decomposition temperature	:	No data available
s) Viscosity	:	No data available
t) Explosive properties	:	No data available
u) Oxidizing properties	:	No data available

**Other safety information** No data available

**SECTION 10: STABILITY AND REACTIVITY DATA**

**Reactivity:** No data available

**Chemical stability:** No data available.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** No data available

**Hazardous decomposition products:** Refer Section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on toxicological effects Acute toxicity:** No data available

**Skin corrosion/irritation :**No data available

**Serious eye damage/eye irritation:**No data available

**Respiratory or skin sensitization:**No data available

**Germ cell mutagenicity:**No data available

**Carcinogenicity:**

IARC:No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**Specific target organ toxicity:** single exposure No data available

**Aspiration hazard:** No data available

**Potential Health Effects:**Inhalation REFER SECTION 2

**Skin:** REFER SECTION 2 **Eyes:**REFER SECTION 2

**Ingestion:** REFER SECTION 2

**Additional Information:** RTECS: Not available



### Components Sodium Deoxycholate

Acute Oral Toxicity

Rat LD50: 1,370 mg/kg (As Per RTECS)

Rat Intraperitoneal LD50: 123 mg/kg

Rat Subcutaneous LD50: 2,430 mg/kg

#### Additional Information:

RTECS FZ2250000

### Ferric ammonium citrate

Acute Oral Toxicity

RatLD50: >2000 mg/kg

Acute Potential Health Effects

Skin

Contact may cause irritation or rash, particularly with moist skin.

Eyes

May cause eye irritation with redness, tearing, and abrasion.

Inhalation

Inhalation of high concentrations of dust may cause nasal, throat or lung irritation. Symptoms may include coughing and wheezing.

Ingestion

Ingestion can produce gastrointestinal tract irritation with hyper motility, diarrhea. Chronic Potential Health Effects

Eyes

Prolonged eye contact may cause a brownish discoloration of the eyes.

Skin

Prolonged skin contact may cause skin irritation.

#### Additional information:

RTECS: GE7540000

### Phenol Red

Acute Oral Toxicity

Rat LD50: >600 mg/Kg

Rat Intravenous LD50 :752 mg/Kg

Mouse Intravenous LD50: 1368 mg/Kg

Inhalation

May cause respiratory irritation.

#### Additional Information:

RTECS: SJ7490000

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

No data available

### Components

#### Sodium deoxycholate

Toxicity to Fish

*Oryziaslatipes* LC50: 115mg/l; 48h

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

**Mobility in soil** No data available

#### PBT and vPvB assessment

This substance or mixture contains no components considered to be persistent, bioaccumulating nortoxic (PBT) at levels of 0.1% or higher.

#### Other adverse effects

No data available.



### SECTION 13: DISPOSAL CONSIDERATION

#### Waste treatments methods

##### Product

Offer surplus and non- recyclable solutions to a licenced company. Contact a licenced professional waste disposal service to dispose off this material.

##### Contaminated packaging

Dispose of as unused product

### SECTION 14: TRANSPORT INFORMATION

#### UN-No

ADNR: ADR: IATA\_C: IATA\_P: IMDG: RID:

#### UN proper shipping name

ADNR : Not dangerous goods  
ADR : Not dangerous goods  
IATA\_C : Not dangerous goods  
IATA\_P : Not dangerous goods  
IMDG : Not dangerous goods  
RID : Not dangerous goods

#### Transport hazard class (es)

ADNR: - ADR: - IATA\_C: - IATA\_P: - IMDG : -RID : -

**Packaging group** ADNR: ADR : IATA\_C : IATA\_P : IMDG : RID :

**Environmental hazards** ADNR: No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

**Special precautions for use:** No data available

### SECTION 15: REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Safety health and environment regulations/legislation specific for the substance or mixture

No data available

#### Chemical Safety Assessment

No data available

### SECTION 16: OTHER INFORMATION

Text of H codes and classification mentioned in section 3

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Acute Tox.oral 4 Acute toxicity, oral, Category 4

Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

Skin Irrit. 2 Skin corrosion or irritation, Category 2

STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

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