

## CM 23260 - MURASHIGE & SKOOG MICROELEMENT

### SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: MURASHIGE & SKOOG MICROELEMENT

PRODOUCT CODE: TP 093

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

The components of this mixture need not be disclosed as per the regulations. All ingredients in this mixture are nonhazardous

### SECTION 4: FIRSAID 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 2-8 °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 tan with homogenous mixture of free flowing powder
b) Odour	:	No data available
c) Odour Threshold	:	No data available
d) pH	:	4.9 ± 0.2
e) Melting point/freezing point	:	No data available
f) Initial boiling point and boiling range	:	No data available
g) Flashpoint	:	No data available
h) Evaporation rate	:	No data available
i) Flammability (solid, gas)	:	No data available
j) Upper/lower flammability or explosive limits:	:	No data available
k) Vapour pressure	:	No data available
l) Vapour density	:	No data available
m) Relative density	:	No data available
n) Water solubility	:	No data available
o) Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
q) Decomposition temperature	:	No data available
r) Viscosity	:	No data available
s) Explosive properties	:	No data available
t) 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  
Rat LD50: >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 therequirements ofRegulation (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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