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Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision: 00001

Date of Revision: 28.01.2017

# 1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number PT011G

Product Name Murashige & Skoog Medium

w/ Vitamins, Sucrose & CleriGel™;

w/o CaCl<sub>2</sub>, IAA & Kinetin

REACH Registration Number Reach registration number is not available for this mixture. According

to REACH regulation EC 1907/2006 this product is exempted from registration. The annual tonnage does not require a REACH registration

or it is envisaged for a later registration deadline.

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

**1.2.1** Relevant identified uses Laboratory chemicals, Manufacture of substances

**1.2.2** Uses advised against No data available

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

Produced by HiMedia Laboratories Private Limited

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1.4 Emergency Tel. No.

Emergency Tel. No. Please contact the regional HiMedia representation in your country

#### 2 Hazards Identification

## 2.1 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.

#### 2.2 Label elements

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

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

## 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 Composition/Information On Ingredients

# 3.2 Mixture

Co	mponent	Classification	Concentration
Potassium nitrat	e		
CAS No.:	7757-79-1	As Per EC Regulation 1272/2008	>=4 - <=6%
EC No.:	231-818-8	Ox. Sol. 3 H272	

Co	mponent	Classification	Concentration
Ammonium nitr	ate		
CAS No.:	6484-52-2	As Per EC Regulation 1272/2008	>=4 - <=5%
EC No.:	229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A;	
		STOT SE 3 H272; H315; H319; H335	

Cor	mponent	Classification	Concentration
Manganese sulpl	nate		
CAS No.:	10034-96-5	As Per EC Regulation 1272/2008	>=0.04 - <=0.05%
EC No.:	232-089-9	STOT RE 2; Aquatic Chronic 2 H373;	
Index-No :	025-003-00-4	H411	

	Component	Classification	Concentration
Boric acid			
CAS No.:	10043-35-3	As Per EC Regulation 1272/2008	>=0.01 - <=0.02%
EC No.:	233-139-2	Repr.Tox. 1A, 1B H360	
Index-No :	005-007-00-2		

Co	mponent	Classification	Concentration
Potassium iodid	e		
CAS No.:	7681-11-0	As Per EC Regulation 1272/2008	>=0.001 -
EC No. :	231-659-4	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	<=0.003%

Cor	nponent	Classification	Concentration
Zinc sulphate, he	eptahydrate		
CAS No.:	7446-20-0	As Per EC Regulation 1272/2008	>=0.01 - <=0.03%
EC No.:	231-793-3	Acute Tox.oral 4; Eye Dam. 1; Aquatic	
Index-No :	030-006-00-9	Chronic 1 H302; H318; H410	

Con	nponent	Classification	Concentration
Copper sulphate			
CAS No.:	7758-98-7	As Per EC Regulation 1272/2008	>=0.0000 -
EC No.:	231-847-6	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	<=0.0001%
		2A; Aquatic Chronic 1 H302; H315;	
		H319; H410	
		As Per EC Directive 67/548/EEC or	
		1999/45/EC	
		Xn; Xi; N R22; R36/38; R50/53	

Component		Classification	Concentration
Ferrous sulphate, heptahydrate			
CAS No.:	7782-63-0	As Per EC Regulation 1272/2008	>=0.06 - <=0.08%
EC No.:	231-753-5	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	

Component		Classification	Concentration
Nicotinic acid			
CAS No.:	59-67-6	As Per EC Regulation 1272/2008	>=0.001 -
EC No.:	200-441-0	Eye Irrit. 2A H319	<=0.002%

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

### 4 First Aid Measures

# 4.1 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.

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

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

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

No data available

## 5 Fire Fighting Measures

# 5.1 Extinguishing media

## Suitable extinguishing media

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

#### Unsuitable extinguishing media

No data available.

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

Magnesium oxides, Sulphur oxides, Sodium oxides, Iron oxides, Calcium Oxide, Cobalt oxides, Copper oxides, Manganese oxides,, Molybdenum oxides, Oxides of Phosphorus, Potassium oxides, Zinc oxides

## 5.3 Precautions for fire-fighters

Cool closed containers exposed to fire with water spray.

#### 5.4 Further information

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6 Accidental Release Measures

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

Use personnel protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

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

#### 6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Sweep up and shovel. 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). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see Section 13.

#### 7 Handling and Storage

## 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Avoid exposure Obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and source of ignition

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing Solids

**Recommended Storage Temperature**: 2 - 8°C

#### 7.3 Specific end uses

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

# 8 Exposure Controls/Personal Protection

## 8.1 Control parameters

## 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN 166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-washing facilities readily available where eye contact can occur.

# 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 particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Environment exposure controls**

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

## 9 Physical and chemical properties

рН

Relative density

# 9.1 Information on basic physical and chemical properties

Appearance White to off-white, homogenous powder
Odour No data available
Odour Threshold No data available

4.00 - 5.00

No data available

Melting/freezing point

No data available
Initial boiling point and boiling range

Flash point

Upper/lower flammability or explosive limits

Evaporation rate

Flammability (Solid, gas)

Vapour pressure

No data available
No data available
No data available

Water Soluble after boiling in distilled water

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available

No data available

No data available

Explosive properties

No data available

No data available

No data available

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Vapour density Thermal decomposition No data available No data available

## 9.2 Other safety information

No data available

## 10 Stability and Reactivity

## 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Strong reducing agents, Strong acids, Powdered metals

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Nitrogen oxides(NOx), Sulphur oxides, Oxides of phosphorus,. Potassium oxides, Magnesium oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides. Other Decomposition products not known.. In event of fire - refer section 5

## 11 Toxicological Information

# 11.1 Information on toxicological effects

#### Acute toxicity

No data available

Remarks: No data available

No data available

# Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

# Carcinogenicity

IARC: No component of this product 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 - repeated exposure

No data available

# **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: Not applicable

# 12 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 PBT and vPvB assessment

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

12.6 Other adverse effects

#### 13 Disposal Considerations

## 13.1 Waste treatments methods

#### **Product**

Dispose of as unused product.

## 13.2 Contaminated packaging

Burn in a chemical incinerator equipped with an afterburner and srcubber but exert extra care in igniting as this material is highly flammable. Contact a licenced professional waste disposal service to dispose off this material.

#### 14 Transport Information

#### 14.1 UN-No

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

# 14.2 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

## 14.3 Transport hazard class(es)

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

# 14.4 Packaging group

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

#### 14.5 Environmental hazards

ADR: NO IMDG: Marine Pollutant: NO IATA\_C: NO

# 14.6 Special precautions for use

No data available

# 15 Regulatory Information

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

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

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

# 16 Other information

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard, Category 2
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Ox. Sol. 3	Oxidising solids, Category 3
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract
	irritation, Category 3
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse. Effects
	in the aquatic environment.
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

# **Further Information**

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