and the second second	0	www.himedialabs.com		
		Safety data sheet(SDS)		
		According to Regulation (EC) No.1907/2006		
		Revision : 00001		
		Date of Revision : 28.01.2017		
1	Identification of the substa	nces/ mixture and of the company/ undertaking		
1.1	Product Identifiers			
	Product Number	PT010		
	Product Name	Murashige & Skoog Medium		
		w/ Vitamins & Sucrose;		
	REACH Registration Number	w/o CaCl₂, IAA, Kinetin & Agar Reach registration number is not available for this mixture. According		
	REACH REgistration Number			
		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 1.2.1	Relevant identified uses of Relevant identified uses	the substance or mixture and uses advised against Laboratory chemicals, Manufacture of substances		
1.2.2	Uses advised against	No data available		
1.3	Details of the supplier of th	e safety data sheet		
	Produced by	HiMedia Laboratories Private Limited		
	Address	23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086		
		India		
	Tel. No.	+91-22-2500 0970, +91-22-2500 1607 Fax No.		
1.4	Mail Id	ptc@himedialabs.com Website : www.himedialabs.com		
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 substa CLP Classification-Regulation	nce or mixture on (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 Regu	lation (EC) No.1272/2008		
	Not a hazardous substance	or mixture according to Regulation (EC) No. 1272/2008.		
2.3	Other Hazards			
	This substance/mixture con	tains no components considered to be either persistent, bioaccumulative		
	and toxic (PBT), or very pers	sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
<u> </u>		On Ingradiants		
3	Composition/Information	Un ingredients		

3.2 Mixture

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

Со	mponent	Classification	Concentration
Ammonium nitrate			
CAS No. :	6484-52-2	As Per EC Regulation 1272/2008	>=4 - <=6%
EC No. :	229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A;	
		STOT SE 3 H272; H315; H319; H335	

Сог	mponent	Classification	Concentration
Manganese sulpl	hate		
CAS No. :	10034-96-5	As Per EC Regulation 1272/2008	>=0.04 - <=0.06%
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 - <=0.03%	
EC No. :	233-139-2	Repr.Tox. 1A, 1B H360		
Index-No :	005-007-00-2			

Со	mponent	Classification	Concentration
Potassium iodide			
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%

Co	mponent	Classification	Concentration
Molybdic acid			
CAS No. :	7782-91-4	As Per EC Regulation 1272/2008	>=0.0007 -
EC No. :	231-970-5	H319; H335; H373	<=0.0009%

Component		Classification	Concentration
Zinc sulphate, heptahydrate			
CAS No. :	7446-20-0	As Per EC Regulation 1272/2008	>=0.02 - <=0.04%
EC No. :	231-793-3	Acute Tox.oral 4; Eye Dam. 1; Aquatic	

Page **2** of **9**

Index-No :	030-006-00-9	Chronic 1 H302; H318; H410	

Component		Classification	Concentration
Cobalt chloride, 6H2O			
CAS No. :	7791-13-1	As Per EC Regulation 1272/2008	>=0.0000 -
EC No. :	231-589-4	Acute Tox.oral 4; Skin Sens. 1; Resp.	<=0.0001%
Index-No :	027-004-00-5	Sens. 1; Muta. 2; Carc. 1B; Repr. 1B;	
		Aquatic Chronic 1 H302; H317; H334;	
		H341; H350i; H360F; H410	

Со	mponent	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%

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.

Page **3** of **9**

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. Wear protective gloves and eye/face protection. Use only in well ventilated areas. Keep away from heat, sparks and open flame.

7.2 Conditions for safe storage, including any incompatibilities Store in cool/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, immediately after handling the products 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

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
рН	3.5 - 4.5
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	Soluble in water
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	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 No data available
- **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

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

Page **6** of **9**

12.2	Persistence and degradability
12.2	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
13.2	Dispose of as unused product. Contaminated packaging
13.2	
	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
14.1	ADNR : ADR : IATA_C : IATA_P : IMDG : RID :
14.2	UN proper shipping name
14.5	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
17.3	ADR : No IMDG : Marine Pollutant : No IATA_C : No
14.6	Special precautions for use
14.0	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
	Page 7 of 9
	-

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
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360	May damage fertility or the unborn child
H360F	May damage fertility
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
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 3	Oxidising solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1
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

Further Information

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Page **9** of **9**