

Material Safety Data Sheet

1. Identification of Substance/Preparation and of the company/undertaking

1.1 Product Name: Tissue Culture Media

1.2 Product Number(s) 81001 (LDMM™ Li's Differentiation Maintenance Medium, LDMM™-A, 50 mL); 81002 (LDMM™-B, 50 mL); 81007 (LDMM™-A, 500 mL); 81008 (LDMM™-B, 500 mL); 81013 (UCRM™-AF - Universal Cryopreservation Recovery Medium-Animal Product Free, 50 mL); 81014 (UPCM™-AF - Universal Primary Cell Plating Medium-Animal Product Free, 50 mL); 81015 (UCRM™ - Universal Cryopreservation Recovery Medium, 50mL); 81016, 81017 (UPCM™- Universal Primary Cell Plating Medium, 50mL 500mL); 81018, 81019, 81063, 81064 (HIM™- Hepatocyte Induction Medium, HIM-N Hepatocyte Induction Medium-N, 50mL 500mL); 81025, 81026 (HMM™- Hepatocyte Metabolism Medium, 50mL 500mL contains 3mM salicylamide) 81031, 81032 (HMM™- Hepatocyte Metabolism Medium, 50mL 500mL no salicylamide); 81033, 81034 (Li's Differentiation Maintenance Medium (LDMM™-A) (protein free) 50mL; 500mL); 81035, 81036 (IPMA™- IVAL Plating Medium - A, 50mL, 500mL); 81037, 81038 (RHIM™: Rodent Hepatocyte Induction Medium, (with Supplements) 50 mL; 500 mL); 81039, 81040 (HQM™ Hepatocyte/Enterocyte Incubation Medium, 50mL, 500mL Serum Free); 81051, 81052 (Overlay Medium, 50mL, 15mL); 81054 (UCRM™-SF - Universal Cryopreservation Recovery Medium-Serum Free, 50mL); 81056 (CERM™- Cryopreserved Enterocyte Recovery Medium, 50mL); 81053, 81055 (IHRM-A™ - IVAL Hepatocyte Rinse Medium - A 50mL, 500mL); 81057, 81058 (UPCM™-SF- Universal Primary Cell Plating Medium-Serum Free, 50mL, 500mL); 81059, 81060 (Li's Differentiation Maintenance Medium (LDMM™) - A, Serum Free, 50mL 500mL); 81063, 81064 (HIM-N™ - Human Induction Medium-N (with supplements) 50 mL, 500mL); Serum Free; 50mL; 82187 Cofactor N for 1.0 mL MetMax™ Hepatocytes and Enterocytes; 82195 Cofactor N10 for 2.5 mL MetMax™ Hepatocytes and Enterocytes; 87015, 87016, (maintenance medium, 250 mL and 500 mL) 87017, 87018, (medium supplement for 250 mL and 500 mL) 87019, 87020, (rodent maintenance medium, 250 mL and 500 mL) 87021, 87022 (rodent medium supplement for 250 mL and 500 mL, Hep-I-Spheres™ Maintenance Media and Supplements)

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

This material is sold for research and development purposes only. It is not for any human, human, therapeutic, or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use.

Tissue Culture Media and other proprietary components: All above components are considered to be non-hazardous at their given concentration. These products contain proprietary components including distilled H₂O, nutrients, sugars, amino acids and inorganic salts.

1.4 Company/Undertaking Identification

In Vitro ADMET Laboratories Inc. (IVAL)
9221 Rumsey Road
Suite #8
Columbia, MD 21045
Tel: (410) 869-9037; Fax: (410) 869-9034
Email: nola@invitroadmet.com

1.5 Emergency Telephone number

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Revision Date May 19, 2017

Version TCmedia 1.1

2. Hazardous identification

2.1 Classification of the substance or mixture

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The product contains no substances which are to be considered to be hazardous to health at their given concentration.

2.3 Label Elements

Signal Word None

Hazard Statements None

For Research Use only

This material is sold for research and development purposes only. It is not for any human, human, therapeutic, or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. Proper precautions should be taken when handling these products. All products should be non-hazardous and non-contagious.

Precautionary Statements

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection

Eyes: May cause eye irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

2.4 Other hazards No information available

3. Composition/information on ingredients

The product contains no substances which are to be considered to be hazardous to health at their given concentration.

Hazardous impurities None Known

4. First Aid Measures

4.1 First Aid Measures: General laboratory safety measures apply during handling and use. In the event of exposure as listed below use the following guideline and consult your physician if necessary.

Skin Contact: Wash off immediately with plenty of soap and water.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids for at least 15 minutes.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Inhalation: Move to fresh air, if not breathing give artificial respiration.

4.2 Most important symptoms and effects both acute and delayed

If you feel unwell, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

None known

5. Fire-fighting Measures

5.1 Extinguishing media

Products are not known to be flammable. Standard fire safety equipment and procedures should be followed.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment: Standard fire safety equipment and procedures should be followed.

Equipment for fire fighters: Standard fire safety equipment and procedures should be followed.

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Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons: None

5.2 Special hazards arising from the substance or mixture: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged onto drains. During a fire, smoke may contain the original material in addition to unidentified toxic or irritating compounds.

5.3 Advice for firefighters

Special protective equipment: Standard fire safety equipment and procedures should be followed.

Specific method: None.

6. Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes.

Advice for emergency responders: Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Sweep up to prevent slipping hazard.

6.2 Environmental precautions: None known.

6.3 Methods for cleaning up: No special measures are required.

7. Handling and Storage

7.1 Precautions for safe handling: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes and appropriate measures apply during handling and use.

7.2 Conditions for safe storage including any incompatibilities: Store at 2-8°C (Long Term); Ambient (Transit)

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure limit(s): No data available

8.2 Exposure controls

Occupational exposure controls: Contains no substance with occupational exposure limit values.

Personal protection equipment: General laboratory safety measures apply during handling and use.

Respiratory protection: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes and appropriate measures apply during handling and use.

Hand protection: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes and appropriate measures apply during handling and use.

Eye protection: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes and appropriate measures apply during handling and use.

Skin and Body protection: Use personal protective equipment. Exercise appropriate precautions to prevent contact with skin, eyes, or mucous membranes and appropriate measures apply during handling and use.

Thermal Hazards: Avoid direct contact with liquid nitrogen and use personal protective equipment.

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Environmental exposure controls: Materials should be handled in a certified biosafety cabinet.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: Liquid

Color: Ranges from Clear to dark pink translucent

Odor: None.

Odor Threshold: No information available.

pH: 7.35 - 7.45

Melting point/range: No information available.

Boiling point/range: No information available.

Flash point: No information available.

Evaporation Rate: No information available.

Flammability: No information available.

Explosion limits: No information available.

Vapor pressure: No information available.

Vapor density: No information available.

Relative density: No information available.

Water solubility: Soluble.

Partition coefficient (n-octanol/water): No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity: No information available.

Combustion/explosion hazards: Not hazardous.

Oxidizing properties: None.

9.2. Other information: None.

10. Stability and Reactivity

10.1 Reactivity: No information available.

10.2 Chemical stability: Stable under recommend storage conditions.

10.3 Possibility of hazardous reactions: No information available.

10.4 Conditions to avoid: Not required.

10.5 Incompatible materials: None.

10.6 Hazardous decomposition products: None under normal use.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity: No data available.

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

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STOT-single exposure: No data available.
STOT-repeated exposure: No data available.
Aspiration Hazard: No data available.

11.2 Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects based on our experience.

12. Ecological Information

12.1 Toxicity

Ecotoxicity effect: No data available
Biodegradation: No data available
Bioaccumulation: No data available
Further information on ecology: 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 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

13. Disposable Considerations

13.1 Waste treatment methods

Waste from residues/unused products: Dispose product in accordance with all federal, state and local environmental regulations. In the case of contamination, dispose of as unused product.

Contaminated packaging: Dispose of as unused product

14. Transport Information

14.1 UN Number: None.

14.2 UN Proper Shipping name: Non-hazardous, Non-contagious, non-regulated

14.3 Transport hazard class(es): Not hazardous.

14.4 Packing Group, if applicable: N/A

14.5 Environmental hazards: Not dangerous goods

14.6 Special precautions for user: No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: N/A

14.8 DOT (US): Non-hazardous, Non-contagious, non-regulated

14.9 IATA: Non-hazardous, Non-contagious, non-regulated

14.10 IMDG: Non-hazardous, Non-contagious, non-regulated

14.11 Japan PDSC (Poisonous and Deleterious Substances Control Law): Not dangerous goods

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15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory information: Not regulated

15.2 Chemical Safety assessment: Not required

OSHA Hazards: No OSHA hazards

DSL Status: NO DSL status

SARA Listed: NO SARA listed

Japan PDSC (Poisonous and Deleterious Substances Control Law):

This formulation or any substances used in formulating this product are not listed in the PDSC database of Japan National Institute of Health Sciences.

China – CRS and COSHA:

In accordance with the Catalog of Hazardous Chemicals in China (2002) specifically the listed compounds and/or substances; Advanced Pharmaceutical Sciences, Inc. certifies it does not contain dangerous compounds specified by Chinese government or include any compounds or substances listed in the product (s).

16. Other Information

Revision note Safety datasheet sections which have been updated: 16

Key or legend to abbreviations and acronyms None

Key literature references and sources for data Information taken from reference works and the literature. Sources of key data used to compile the Safety Data Sheet: IUCLID; Toxnet; GHS (Rev.3) (2009)...

Classification procedure

This material is sold for research and development purposes only. It is not for any human, human, therapeutic, or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potential hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since IVAL Inc. cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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