

Skeletal Muscle Induction Medium

Page 1 of 7

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 12Feb2020

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**PRODUCT IDENTIFIER**· **Trade name:** *Skeletal Muscle Induction Medium***Product Number:** SKM-KITM**Relevant identified uses of the substance or mixture and uses advised against:****Product Description**

Culture Medium for Induction of Pluripotent Stem Cells to Myogenic Precursors – For In Vitro Research use only.
500mL, 250 mL or 100 mL Plastic bottle

· **Application of the substance / the mixture:** Industry Specific Application**Details of the Supplier of the Safety Data Sheet:**· **Supplier:**

AMS Biotechnology (Europe) Limited
184 Park Drive
Milton Park
Abingdon, OX14 4SE
UK

· **Emergency telephone number:** +44 (0) 1235 429 020**SECTION 2 - HAZARDS IDENTIFICATION**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

Label elements:**GHS label elements** Non-Regulated Material**Hazard pictograms:** Non-Regulated Material**Signal word:** Non-Regulated Material**Hazard statements:** Non-Regulated Material**Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0% of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1

Fire = 0

Reactivity = 0

· **Hazard(s) not otherwise classified (HNOC):** None known**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

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· **Chemical characterization: Mixtures**· **Description:** Mixture of substances listed below with non-hazardous additions.

Skeletal Muscle Induction Medium

Page 2 of 7

Dangerous Components:		
Proprietary	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

SECTION 4 – FIRST-AID MEASURES

·Description of first aid measures:**·General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

·After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

·After skin contact:

Rinse with warm water.

If skin irritation occurs, consult a doctor.

·After eye contact:

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

·After swallowing:

Do not induce vomiting without medical advice.

If swallowed and symptoms occur, consult a doctor.

·Information for doctor:

·Most important symptoms and effects, both acute and delayed: No further relevant information available.

·Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5 – FIRE FIGHTING MEASURES

·Extinguishing media:

·Suitable extinguishing agents: Use fire fighting measures that suit the environment.

·Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:**Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

·Personal precautions, protective equipment and emergency procedures: Not required.

·Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

·Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

Skeletal Muscle Induction Medium

Page 3 of 7

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:

Proprietary 13 mg/m³

PAC-2:

Proprietary 140 mg/m³

PAC-3:

Proprietary 840 mg/m³

SECTION 7 – HANDLING AND STORAGE

Handling

Precautions for safe handling:

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Breathing equipment: Not required.

Protection of hands: Not required.

Material of gloves: Not required.

Penetration time of glove material: Not applicable.

Eye protection: Not required.

Body protection: Not required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Frozen Liquid

Color: Pale pink

Skeletal Muscle Induction Medium

Page 4 of 7

Odor: Odorless

Odor threshold: Not determined.

pH-value @ 20 °C (68 °F): >7

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

Flash point: None

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not determined.

Density:

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with:

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:

Organic solvents: 0.0 %

Solids content: 0.3 %

Other information: No further relevant information available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11 – STABILITY AND REACTIVITY

Information on toxicological effects:

Acute toxicity:

Primary irritant effect:

On the skin: No irritating effect.

On the eye: No irritating effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

The product is not subject to classification according to internally approved calculation methods for preparations.

Skeletal Muscle Induction Medium

Page 5 of 7

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories:

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation:

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION

UN-Number:

DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

UN proper shipping name:

DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

Transport hazard class(es):

DOT, ADR/ADN, ADN, IMDG, IATA

Class: Non-Regulated Material

Packing group:

DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Skeletal Muscle Induction Medium

Page 6 of 7

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
UN "Model Regulation": Non-Regulated Material

SECTION 15 – REGULATORY INFORMATION

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

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

Proprietary

50-02-2 dexamethasone

California Proposition 65:

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

New Jersey Special Hazardous Substance List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

None of the ingredients are listed.

Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements Non-Regulated Material

Hazard pictograms: Non-Regulated Material

Signal word: Non-Regulated Material

Hazard statements: Non-Regulated Material

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid

Skeletal Muscle Induction Medium

Page 7 of 7

contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

·Date of preparation / last revision: 12Feb2020

·Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4

AMSBIO | www.amsbio.com | info@amsbio.com

AMSBIO LLC
USA & Canada 
1035 Cambridge Street,
Cambridge, MA 02141
T: +1 (617) 945-5033 or
T: +1 (800) 987-0985
F: +1 (617) 945-8218

AMSBIO Europe BV
EU 
Berenkoog 41,
1822 BH Alkmaar,
Netherlands
T: +31 (0) 72 8080244
F: +31 (0) 72 8080142

AMS Biotechnology (Europe) Ltd
UK & Rest of the World 
184 Park Drive, Milton Park
Abingdon OX14 4SE
T: +44 (0) 1235 828 200
F: +44 (0) 1235 820 482

AMS Biotechnology (Europe) Ltd
Switzerland 
Via Lisano 3,
(CP.683)
CH-6900 Massagno
T: +41 (0) 91 604 55 22
F: +41 (0) 91 605 17 85

AMSBIO Europe BV
Deutschland 
T: +49 (0) 69 779099
F: +49 (0) 69 13376880