
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name : Mesoheal+ injection

Synonyms : Hyalurone sodium, Sodium Hyaluronate,

Contact Information :

(Manufacturer)

Koru Pharmaceuticals Co., Ltd.

7F, 7, Samseong-ro 86-gil, Gangnam-gu, Seoul, Korea

Tel) +82 70 8630 3079

Fax)+82 70 8630 3003

(Distributor)

Koru Pharmaceuticals Co., Ltd.

7F, 7, Samseong-ro 86-gil, Gangnam-gu, Seoul, Korea

Tel) +82 70 8630 3079

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No. : 9067-32-7

Molecular Formula : $(C_{14}H_{20}NO_{11}.Na)_n$

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects: Slightly hazardous in case of eye contact (irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not applicable.

MUTAGENIC EFFECTS: Not applicable.

TERATOGENIC EFFECTS: Not applicable.

DEVELOPMENTAL TOXICITY: Not applicable.

4. FIRST-AID MEASURES

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

MATERIAL SAFETY DATA SHEET

Skin Contact:

In case of contact, immediately flush skin with plenty of water.

Inhalation:

If inhaled, remove to fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately.

5. FIRE FIGHTING MEASURES

Flammability of the Product: Not combustible.

Flash Points: Not available.

Flammable Limits: Not available.

Suitable extinguishing media : All available products can be used.

6. ACCIDENTAL RELEASE MEASURES

Remove with any conventional methods. This product on the floor will make it slippery.

7. HANDLING AND STORAGE.**Storage:**

Store in light-resistant, hermetic container at room temperature(1-30°C).

Shelf life :

36 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection: No specific measures necessary.

Exposure Limits: Not assigned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Viscotic solution

Odor: Odorless.

MATERIAL SAFETY DATA SHEET

Molecular Weight: 30,000 - 2,000,000 g/mole

Color: Clear and transparent

pH (1% soln/water): pH of a 5% solution: 5.0 - 8.5

Boiling Point: Not applicable.

Melting Point: Not applicable.

Flash Point : Not applicable.

Flammability : Not combustible.

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Incompatibility with various substances: Not applicable.

Corrosivity: Not applicable.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

This product has been tested when assessing the toxicity, dermal irritation, delayed hypersensitivity, mutagenicity and carcinogenicity of the product. The conclusion from the biological evaluation is that the product is biocompatible, not toxic or irritation when used as intended.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not applicable.

BOD5 and COD: Not applicable.

Products of Biodegradation: Possibly hazardous degradation products are not likely.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not applicable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control

MATERIAL SAFETY DATA SHEET

regulations.

14. TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Special Provisions for Transport: Not applicable.

15. REGULATORY INFORMATIN

Not classified as a fire, health or environment hazard according to the Directive 67/548/EEC or 1999/45/EC on classification, packing and labelling.

16. OTHER INFORMATION

The information in this document is believed to be correct as of the date hereof, but all instructions, recommendations or proposals are given without warranty. As the way of using the product lies beyond Koru Pharmaceuticals Co., Ltd. cannot take any responsibility for loss or damage, which may have arisen as a consequence from using the information.

END OF MSDS.