

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture
Trade name : JSR Basal CHO MX
Chemical description : Biopharmaceutical Cell Line Culture Media

1.2. Recommended use and restrictions on use

Recommended use : Pharmaceuticals

1.3. Supplier

JSR Life Sciences, LLC
1280 N. Mathilda Avenue
Sunnyvale, 94089
United States
T +1 408 543 8800

1.4. Emergency telephone number

Emergency number : CHEMTREC: +1-800-424-9300 (in USA) 24Hrs Every day

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Not classified

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
L-Histidine•HCl•H ₂ O	CAS-No.: 5934-29-2	1 – 3	Eye Irrit. 2A, H319

Full text of H-statements : see section 16

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: If skin irritation occurs: Get medical advice/attention. Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: On exposure to high temperature, may decompose, releasing toxic gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wear personal protective equipment. Provide adequate ventilation to minimize dust and/or vapor concentrations.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.
- Incompatible products : Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

L-Histidine-HCl-H₂O (5934-29-2)

Not applicable

8.2. Appropriate engineering controls

- Appropriate engineering controls : Laboratory samples should be handled in a fumehood. Local exhaust and general ventilation must be adequate to meet exposure standards.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Wear protective clothing impervious to substances in the mixture.

Hand protection:

Protective gloves

Eye protection:

Sealed safety goggles. Provide an emergency eye wash station and quick drench shower in the immediate work area.

Skin and body protection:

Wear protective clothing impervious to substances in the mixture. Protective gloves

Respiratory protection:

Use NIOSH approved respirator with APF 10 or greater in accordance with 29 CFR 1910.134 as follows. Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. NIOSH approved respirators as follows: Any chemical cartridge respirator with P100 HEPA filter(s). Any chemical cartridge respirator with a full facepiece and P100 HEPA filter(s). Any air-purifying respirator with a full facepiece and P100 HEPA filter(s).

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

(See section 7: Handling and Storage). To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases.

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposition products

Carbon dioxide. May liberate toxic gases. Carbon monoxide. Smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

L-Histidine•HCl•H₂O (5934-29-2)

LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

L-Histidine•HCl•H₂O (5934-29-2)

Persistence and degradability	Not readily biodegradable in water.
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12.3. Bioaccumulative potential

L-Histidine•HCl•H₂O (5934-29-2)

Partition coefficient n-octanol/water (Log Pow)	-3.32 (QSAR, KOWWIN, 25 °C)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

L-Histidine•HCl•H₂O (5934-29-2)

Ecology - soil	No (test)data on mobility of the substance available.
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12.5. Other adverse effects

No additional information available

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : an industrial incineration plant.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

This product is not intended for uses encompassed by TSCA.

In accordance with federal regulations, this material shall only be used for the purpose described in the generic use. All users must utilize the worker protection measures and environmental release controls specified in this Safety Data Sheet and in EPA and OSHA regulations. Acknowledgement of receipt of this Safety Data Sheet shall be considered acknowledgement that the user will comply with these requirements.

UNITED STATES DEPARTMENT OF AGRICULTURE (USDA): According to USDA guideline for importation #1110 and #1114, USDA import permit is not required for the importation of this material into the US.

1. The material is produced by recombinant microbial expression (vector is not considered pathogenic for livestock or avian species) and that the organism does not contain genes or express antigens of livestock or poultry disease agents.
2. The preparation does not contain any animal derived additives, such as albumin.
3. The material is produced by microbial fermentation.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Polyethylene-polypropylene glycol (9003-11-6)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
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Disodium hydrogen phosphate (7558-79-4)

CERCLA RQ	5000 lb
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Ammonium ferric citrate (1185-57-5)

CERCLA RQ	1000 lb
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Organic amine

EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.
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15.2. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases

H319	Causes serious eye irritation
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JSR Basal CHO MX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS US (GHS HazCom 2012) - JSR

To the best of our knowledge, the information contained herein is accurate. However, neither JSR Corporation nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.