iLite® IFN beta 1a (950 IU/ml)

BM3249

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Product name:	**iLite® IFN beta 1a (950 IU/mL)**
Product description	**iLite® IFN beta 1a (950 IU/mL) is a solution of recombinant human IFN beta 1a, diluted in RPMI 1640 containing 10% heat-inactivated fetal bovine serum (FBS) and 1% Penicillin Streptomycin.**
Product code	**BM3249**

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

Use of the product	Laboratory chemical. For research use only.

1.3 Details of the supplier of the safety data sheet

Company	Svar Life Science AB
Address	Lundvägen 151
Zip code/Place	SE-212 24 Malmö, Sweden
Telephone	+46 40 53 76 00
Website	www.svarlifescience.com
E-mail	info@svarlifescience.com

1.4 Emergency telephone number

Emergency telephone number	(Sweden) Acute: 112 – Ask for ”Giftinformation”. If less acute call: +46 010 4566700. Other countries: Please contact local emergency telephone number.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP).
The mixture is not to be classified according to CLP.
The mixture is covered by Directive 2000/54/EC of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.

2.2 Label elements

None

2.3 Other hazards

Other hazards which do not result in classification

Contain Fetal Bovine serum, which is derived from cattle. The Certificate of Analysis for FBS show that the substance has been analyzed for Bovine Adenovirus, Bovine Parvovirus, Blue tongue Virus, Bovine Virus Diarrhea, Rabies Virus, Reovirus, Bovine Respiratory Syncytial Virus, Cytopathic agents and Hemadsorbing agents with a negative result. The FBS was collected and processed in the United States and is from USDA approved and inspected slaughter establishments. The United States is recognized by the USDA as being free of foot and mouth disease and rinderpest. The FBS meets USDA requirements for abbatoir-sourced animals, traceability and country of origin. The FBS is collected from fetuses derived from healthy dams that have passed pre and post mortem certified veterinary inspection. The products are considered to be biological agents in group 1 (ie. a biological agent that is unlikely to cause human infection). As a precaution, it is recommended that the work is carried out under measures similar to Group 2 in Council Directive 2000/54/EC.

Substance meets the criteria for PBT/ vPvB under Regulation EC No. 1907/2006, appendix XIII

PBT/ vPvB: No

Endocrine disrupting properties	The substance is not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

The product consists of RPMI 1640 medium with Glutamax added:

No	Product/ingredient name	EC-number	CAS-number	REACH registration number	Conc. (%w/w)	Classification Regulation (EC) No. 1272/2008 [CLP]
	Fetal Bovine Serum (Heat inactivated FBS)	--	--	--	10	None
	Recombinant human IFN beta 1a	--	--	--	950 IU/mL	None
	Streptomycin sulfate	--	3810-74-0	--	100 µg/mL	Acute Tox. 4 - H302 Repr. 2 - H361
	Penicillin G Sodium Salt	--	69-57-8	--	100 U/mL	Skin Sens. 1 - H317

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Skin contact:	Remove contaminated clothing. Rinse skin with water. Immediate medical attention is not required.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact:	None expected.
Eye contact:	None expected.
Inhalation	None expected.

4.3 Indication of any immediate medical attention and special treatment needed

None expected.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Unsuitable extinguishing media	No infomation available.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Not known

5.3 Advice for firefighters

Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Further information	Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Use personal protective equipment – see section 8.
For emergency responders	No special handling advices are needed.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Small spill	Soak up with inert absorbent material.
Large spill	Not applicable.

6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures	Use laboratory facilities, which generally qualify for handling of biological agents.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled. Do not pipette by mouth pipetting. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Upon receipt confirm that adequate dry-ice is present and the reagent is frozen. Store at -80 °C.
Further information:	Not applicable

7.3 Specific end use(s)

Laboratory chemicals for research use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits	Contains no substances with occupational exposure limit values.
Engineering Measures	Ensure adequate ventilation, especially in confined area

8.2 Exposure controls

Appropriate engineering controls	Sufficient ventilation.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	Not relevant during normal condition.
Eye/face protection	Use safety glasses (according to EN166) when there is risk of splashes.
Hand protection	Wear protective gloves (according to EN374) of butyl rubber or nitrile rubber.
Body protection	Wear suitable protective clothing.
Environmental exposure controls	Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	n.d
Odour:	n.d
Melting point/freezing point (°C):	n.d
Boiling point or initial boiling point and boiling range (°C):	n.d
Flammability (solid, gas):	n.a
Lower and upper explosion limit (vol-%):	n.d
Flash point (°C):	n.d
Auto-ignition temperature (°C):	n.d
Decomposition temperature (°C):	n.d
pH:	n.d
Kinematic viscosity:	n.d
Solubility:	n.d
Partition coefficient n-octanol/water (log value):	n.d
Vapour pressure:	n.d
Density and/or relative density:	n.d
Relative vapour density:	n.d
Particle characteristics:	n.a

n.d = not determined
n.a = not applicable

9.2 Other information
Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity No information available.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions No data available.

10.4 Condition to avoid No information available.

10.5 Incompatible materials No data available.

10.6 Hazardous decomposition products No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

11:1 Information on toxicological effects

Acute toxicity
No data available. Based on available data, the classification criteria are not met.

Irritation/Corrosion
No data available. Based on available data, the classification criteria are not met.

Sensitization by inhalation/skin contact
No data available. Based on available data, the classification criteria are not met.

Germ cell mutagenicity
No data available. Based on available data, the classification criteria are not met.

Carcinogenicity
No data available. Based on available data, the classification criteria are not met.

Reproductive toxicity
No data available. Based on available data, the classification criteria are not met.

Developmental toxicity
No data available. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)
No data available. Based on available data, the classification criteria are not met.

Repeated dose toxicity and specific organ toxicity (repeated exposure)
No data available. Based on available data, the classification criteria are not met.

11.2 Information on other hazards:
Not available

SECTION 12: ECOLOGICAL INFORMATION

12:1 Toxicity	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
12:2 Persistance and degradability	No information available
12:3 Bioaccumulative potential	No information available
12:4 Mobility in soil	No information available
12:5 Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12:6 Endocrine disrupting properties:	No information available
12:7 Other adverse effects	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Method of disposal	Biological agents are considered hazardous waste. Disposal should be according to local, state or national legislation. Note! Waste containers containing biological material must be labeled with:  (black symbol on yellow background). The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way by incineration.
Hazardous waste	Within the present knowledge of the supplier, this product is regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European Waste Catalogue (EWC)

EWC Waste Code	Type of waste
18 01 03	Wastes whose collection and disposal is subject to special requirements in order to prevent infection
15 02 02	Absorbent material containing residues of or contaminated by dangerous substances

Packaging

Method of disposal	Incineration.
Special precautions	None.

SECTION 14: TRANSPORT INFORMATION

Product is not classified as dangerous goods.

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number or ID number	--	--	--	--
14.2 UN proper shipping name	--	--	--	--
14.3 Transport hazard class(es)	--	--	--	--
14.4 Packing Group	--	--	--	--
14.5 Environmental hazards	--	--	--	--
14.6 Special precautions for user	No	No	No	No
14.7 Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable	Not applicable
Additional information	**--**			

SECTION 15: REGULATORY INFORMATION

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

Must not be used by persons under 18 years of age (Directive 94/33/EC).
The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC)

The mixture is covered by:
Directive 2000/54/EC – biological agents at work
EU Regulation (EC) No. 1272/2008 (CLP): Not classified.

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV – List of substances subject to authorization
Substances of very high concern
None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not applicable

15.2 Chemical Safety Assessment

No CSR.

Other information

Tariff Code harmonized system	Not applicable
The EU Seveso Directive	Not applicable

International regulations

Chemical Weapons Convention List Schedule I Chemicals	Chemical Weapons Convention List Schedule II Chemicals	Chemical Weapons Convention List Schedule III Chemicals
Not regulated	Not regulated	Not regulated

SECTION 16: OTHER INFORMATION

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II.

LIST OF HAZARD STATEMENTS MENTIONED UNDER SECTION 3: None

Abbreviations:
CSR = Chemical Safety Report
FBS = Fetal Bovine Serum
USDA = United States Department of Agriculture
IFN = Interferon
PBT = Persistent, Bioaccumulative, Toxic
vPvB = very Persistent, very Bioaccumulative

Literature:
PBL Assay Science, Thermofisher Scientific, and Life Technologies (Certificat of analysis and Safety Data Sheet)
IUCLID = International Uniform ChemicaL Information Database
ECHA = European Chemicals Agency

Other information
No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Revisions

Version	Valid from (date)	Changes
1.0	{{Effective date}}	New document