SAFETY DATA SHEET



Creation Date 15-Jul-2010	Revision Date 25-Feb-2014	Revision Number 2		
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1. Product identifier				
Product Description:	Amphotericin B			
Cat No. :	455490000; 455490010; 455490050			
Synonyms	Amphotericin Beta; Amphozone; Mysteclin-F.			
CAS-No	1397-89-3			
EC-No.	215-742-2			
Molecular Formula	C47H73NO17			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Recommended Use	Laboratory chemicals			
Uses advised against	No Information available			
1.3. Details of the supplier of the sa	fety data sheet			
Company	Acros Organics BVBA			
	Janssen Pharmaceuticalaan 3a			
	2440 Geel, Belgium			
E-mail address	begel.sdsdesk@thermofisher.com			
1.4. Emergency telephone number				
	For information US call: 001-800-ACROS-01 / Europe call: +32 14 57			
	Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99			
	CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-388	37		

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Physical hazards		
Based on available data, the classification criteria are not met		
Health hazards		
Skin Corrosion/irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	
Specific target organ toxicity - (single exposure)	Category 3	

Classification according to EU Directives 67/548/EEC or 1999/45/EC Symbol(s) Xi - Irritant R-phrase(s) D00/07/00

R36/37/38 - Irritating to eyes, respiratory system and skin

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

2.2. Label elements

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Amphotericin B



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
Amphotericin B	1397-89-3	EEC No. 215-742-2	>95	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Ingestion	Do not induce vomiting. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination

4.2. Most important symptoms and effects, both acute and delayed

No information available

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological Information.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in freezer.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Amphotericin B

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL) No information available.

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation				

Predicted No Effect Concentration No information available. **(PNEC)**

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection	Protective gloves
Hand Protection	Protective gloves

Neoprene		Breakthrough time See manufacturers recommendations	Glove thickness -	EU standard EN 374	Glove comments (minimum requirement)
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Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

Respiratory Protection	No protective equipment is needed under normal use conditions.
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Small scale/Laboratory use	Maintain adequate ventilation

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Metting Point/Range Softening Point Boiling Point/Range>170°C / 338°F No data available No information available. No information available. Plash PointMo data available No information available. SolidEvaporation Rate Flammability (solid,gas) Explosion LimitsNot applicable No information available. No data available.SolidVapor Pressure Vapor Density Bulk Density Water SolubilityNo information available. No data available No data availableSolidVapor Density Pressure No information available. No data available Bulk Density Water Solubility No data available No information available. No tapplicable No information available.SolidPartition Coefficient (n- octanol/water)Not applicable No tapplicable No tapplicable No information available.SolidPartition Coefficient (n- octanol/water)Not applicable No tapplicable No tapplicable No tapplicable No tapplicable No information available.Solid9.2. Other information Wolecular Formula Molecular Formula Molecular Formula Molecular WeightC47H73NO17 924.09Solid10.1. Reactivity Lo1. ReactivityNone known, based on information available.None known, based on information available.10.2. Chemical stabilityStable under normal conditions.Stable under normal conditions.	Appearance Physical State Odor Odor Threshold pH	Yellow Solid. odorless No data available No information available.	
Flammability (solid,gas) No information available. Explosion Limits No data available. Vapor Pressure No information available. Vapor Density Not applicable Solid Specific Gravity / Density No data available Bulk Density Bulk Density No data available Solid Water Solubility No information available. Solid Solubility in other solvents No information available. Partition Coefficient (n-octanol/water) Autoignition Temperature Not applicable Solid Decomposition temperature Not applicable Solid Viscosity Not applicable Solid Explosive Properties No information available. Solid 92. Other information Q47H73NO17 924.09 Section 10: STABILITY AND REACTIVITY 10.1. Reactivity None known, based on information available. 10.2. Chemical stability Vone known, based on information available. None known, based on information available.	Softening Point Boiling Point/Range	No data available No information available.	Method - No information available.
Vapor Density Not applicable Solid Specific Gravity / Density No data available Bulk Density No data available Bulk Density No data available Solid Solid Bulk Density No data available Solid Solid Bulk Density No data available Solid Solid Water Solubility in other solvents No information available. Solid Solid Partition Coefficient (n- octanol/water) Autoignition Temperature Not applicable Solid Solid Autoignition Temperature Not applicable Solid Solid Solid Solid Partition Coefficient (n- octanol/water) Not applicable Solid Solid <td< th=""><th>Flammability (solid,gas)</th><th>No information available.</th><th>Solid</th></td<>	Flammability (solid,gas)	No information available.	Solid
octanol/water) Autoignition Temperature Not applicable Decomposition temperature No data available Viscosity Not applicable Solid Viscosity Not applicable Solid Explosive Properties No information available. Oxidizing Properties No information available. 9.2. Other information 92. Other information Viscosity Viscosity Molecular Formula C47H73NO17 924.09 SECTION 10: STABILITY AND REACTIVITY 10.1. Reactivity None known, based on information available. 10.2. Chemical stability Viscosity Viscosity	Vapor Density Specific Gravity / Density Bulk Density Water Solubility	Not applicable No data available No data available No information available.	Solid
Decomposition temperature No data available Viscosity Not applicable Solid Viscosity Not applicable Solid Explosive Properties No information available. Solid Oxidizing Properties No information available. Solid 9.2. Other information C47H73NO17 Section available. Section available. Molecular Formula Molecular Weight C47H73NO17 Section available. Section available. Section 10: STABILITY AND REACTIVITY None known, based on information available. None known, based on information available. 10.2. Chemical stability Stability Stability Solid	•		
Molecular Formula C47H73N017 Molecular Weight 924.09 SECTION 10: STABILITY AND REACTIVITY 10.1. Reactivity None known, based on information available. 10.2. Chemical stability	Decomposition temperature Viscosity Explosive Properties	No data available Not applicable No information available.	Solid
10.1. Reactivity None known, based on information available. 10.2. Chemical stability	Molecular Formula		
10.2. Chemical stability		SECTION 10: STABILITY AND	REACTIVITY
10.2. Chemical stability	10.1. Reactivity	None known, based on information ava	ailable.
	10.2. Chemical stability		

10.3. Possibility of hazardous reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
10.4. Conditions to avoid	Incompatible products, Excess heat, Avoid dust formation.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity; Oral Dermal Inhalation	Based on available data, the cla No data available No data available	assification criteria are not met			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Amphotericin B	5 g/kg (Rat)				
(b) skin corrosion/irritation;	Category 2	Category 2			
(c) serious eye damage/irritation;	Category 2				
(d) respiratory or skin sensitization;					
Respiratory	No data available				
Skin	No data available				
(e) germ cell mutagenicity;	No data available				
(f) carcinogenicity;	No data available				
	There are no known carcinogen	ic chemicals in this product			
(g) reproductive toxicity;	No data available				
(h) STOT-single exposure;	Category 3				
	0, 2				
(i) STOT-repeated exposure;	No data available				
Target Organs	Skin, Respiratory system, Eyes.				
(j) aspiration hazard;	Not applicable Solid				
Other Adverse Effects		ve not been fully investigated. See	e actual entry in RTECS for		
Symptoms / effects, both acute and delayed	complete information No information available.				

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects	Do not empty into drains.
12.2. Persistence and degradability	No information available

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SECTION 12: ECOLOGICAL INFORMATION 12.3. Bioaccumulative potential No information available. 12.4. Mobility in soil No information available. 12.5. Results of PBT and vPvB assessment No data available for assessment

12.6. Other adverse effects Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	
Waste from Residues / Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point
European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO	Not regulated
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
ADR	Not regulated
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
ΙΑΤΑ	Not regulated
14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
	215-742-2	-		-	-	-	Х	-	Х	Х	-

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Amphotericin B	WGK 3	

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment Take note of Dir 94/33/EC on the protection of young people at work Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 R36/37/38 - Irritating to eyes, respiratory system and skin

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Legend

CAS - Chemical Abstracts Service	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances	DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances	ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances	AICS - Australian Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances	NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit	TWA - Time Weighted Average
ACGIH - American Conference of Industrial Hygiene	IARC - International Agency for Research on Cancer
DNEL - Derived No Effect Level	PNEC - Predicted No Effect Concentration
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%
NOEC - No Observed Effect Concentration	POW - Partition coefficient Octanol:Water
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code	MARPOL - International Convention for the Prevention of Pollution from Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	VOC - Volatile Organic Compounds
Key literature references and sources for data	
Suppliers safety data sheet,	
Chemadvisor - LOLI,	
Merck index,	

Amphotericin B

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Creation Date	15-Jul-2010
Revision Date	25-Feb-2014
Revision Summary	Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet