	DIPHOTERINE[®]	Approved by: <i>J. BSW</i>	Material Safety Data Sheet
			Page number : 1/4
Implemented on: 10.10.2003	Reference: MSDSDipho	Modified on: 17.12.2012	Update: 7

In accordance with 453/2010/EC* European directive
In accordance with 1272/2008 European directive

SECTION 1: Identification of the mixture and of the company

1.1. Product identifier:

DIPHOTERINE[®]

Chemical name / class:

Aqueous solution containing amphoteric salts

Synonyms:

None

1.2. Relevant identified uses of the mixture and uses advised against:

Washing of ocular or cutaneous chemical splashes of corrosive or irritant chemicals

1.3. Details of the supplier of the safety data sheet:

PREVOR

Moulin de Verville

BP1

F-95760 VALMONDOIS - FRANCE

Phone : +33(0)1 30347676

Fax : +33(0)1 30347670

fds@prevor.com

1.4. Emergency telephone number:

+33(0)1 30347676 (Business hours – GMT +1)

SECTION 2: Hazards identification

2.1. Classification of the mixture:

Non-hazardous mixture according to 1272/2008/EC regulation (CLP).

2.2. Label elements:

None according to CLP.

2.3. Other hazards:

No specific hazard.

SECTION 3. Composition/information on ingredients

3.1. Mixture:

Chemical Name	CAS number	% w/w
Diphoterine [®]	proprietary	proprietary
Water		balance

3.2. Impurities:

No hazardous impurities.

SECTION 4: First aid measures

This is a first-aid product designed to be used in cases of corrosive or irritating chemical contamination. Exposure to this product will not cause additional injury. Victims of chemical exposure must seek advice from a specialist or receive medical attention. Take a copy of the label and MSDS of the product which caused the injury to physician or health professional with victim.

4.1. Description of first aid measures

4.1.1. Inhalation:

No specific hazards

4.1.2. Eye exposure:

No specific hazards

4.1.3. Skin exposure:

No specific hazards

4.1.4. Ingestion:

No specific hazards

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

None known

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

This product is a class IIa medical device in Europe, and has been specifically designed to reduce or avoid injuries caused by an ocular or cutaneous chemical splash. This solution is not hazardous in itself. If necessary, apply a secondary treatment designed for chemical exposure.

SECTION 5: Firefighting measures

This product is non-flammable and non-combustible.

5.1. Suitable extinguishing media:

Water spray, carbon dioxide, dry chemical, foam, any "ABC" class device

5.2. Special hazards arising from the substance or mixture:

None

5.3. Advice for fire-fighters:

In case of fire, wear Self-Contained Breathing Apparatus.

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	DIPHOTERINE[®]	Approved by: <i>J. B. L.</i>	Material Safety Data Sheet
			Page number : 2/4
Implemented on: 10.10.2003	Reference: MSDSDipho	Modified on: 17.12.2012	Update: 7

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:	No specific measures with Diphoterine [®] solution in itself.
6.2. Environmental precautions:	No specific precautions. Clean up the spilled non-hazardous liquid.
6.3 Methods and material for containment and cleaning up:	No specific precautions. This product can be absorbed, for example, with Trivorex [®] absorbent.
6.4. Reference to other sections:	N/A

SECTION 7: Handling and storage

7.1. Precautions for safe handling:	No specific precautions.
7.2. Conditions for safe storage, including any incompatibilities:	Sterile product. Keep in the original container. This product has two year shelf life if kept sealed in its original packaging. When possible, store containers in a cool, dry location, away from sources of intense heat, or where freezing is possible.
7.3. Specific end use(s):	No incompatibility. Use Diphoterine [®] solution immediately and optimally as primary action to wash eye and/or skin in cases of a corrosive or irritating chemical splashes (acids, bases, oxidizers, reducing agents or solvents). In cases of splashes due to hydrofluoric acid or fluorides in acidic medium, Hexafluorine [®] solution washing is more adapted.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:	No national limit values.
8.2. Exposure controls:	
8.2.1. Appropriate engineering controls:	No specific precautions in cases of simple Diphoterine [®] solution exposure. Use adequate ventilation to prevent exposure to the chemical which contaminates the victim.
8.2.2. Personal protection equipment:	
Respiratory protection:	None
Hand protection:	None
Eye protection:	None
Skin/body protection:	None
Specific hygiene measures:	None
Protection of the responders:	None for Diphoterine [®] solution. If treating a victim, responders should wear adequate protection equipment in order to protect themselves from any contact with the chemical remaining on the victim.

SECTION 9: Physical and chemical properties

Appearance(20°C):	liquid
Odour:	none
Odour threshold:	Not applicable
Melting point/ freezing point:	-1°C
Boiling point:	100°C
Flash point:	Non flammable
Evaporation rate (water = 1) :	1
Auto-ignition temperature:	Non flammable
Upper/lower flammability limits:	Non applicable
Specific gravity*:	1.032 g/cm ³
pH:	7.4 +/- 0,3
Vapour pressure:	18 mmHg (20°C)
Solubility in water:	soluble
Solubility:	insoluble in organic solvents
Partition coefficient n-octanol/water:	100% soluble in water

SECTION 10: Stability and reactivity

10.1. Chemical reactivity:	Non-reactive
10.2. Chemical stability:	Stable mixture

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DIPHOTERINE®

Approved by:

J. BSL**Material Safety
Data Sheet**

Page number : 3/4

Implemented on:
10.10.2003Reference:
MSDSDiphoModified on:
17.12.2012Update:
7

10.3. Possibility of hazardous reactions: None

10.4. Conditions to avoid: Do not puncture or expose MICRO or MINI sprays to sunlight or to temperatures above 50°C. Do not expose DAP (autonomous portable shower) to temperatures above 60°C.

10.5. Incompatible materials: None

10.6. Hazardous decomposition products: Thermal decomposition from 100 °C: carbon monoxide and dioxide, nitrogen or carbon oxides, organic vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1. Ingestion :

DL₅₀ (rat) > 2000 mg/Kg

11.1.2. Local effects:

Skin contact:

Non irritant (tested on rabbits)

Non irritant (*in vitro* tests Dermal Irritation® test method)

Eye contact:

Non irritant (tested on rabbits)

Sensitization to the product:

Non sensitising (Magnusson & Kligman Method on Guinea Pig)

Non allergenic (Marzulli-Maibach method on human volunteers)

11.1.3. Mutagenicity:

Non mutagenic (Ames test negative)

SECTION 12: Ecological information

Diphoterine® solution is not harmful if released into the environment.

12.1. Toxicity

12.1.1. Ecotoxicity:

Photobacterium phosphoreum (No known eco-toxic effects)

12.1.2. Microtoxicity:

CE50-15min at 8,63%

CE50-30min at 9,8%

CE50-15min at 5136mg/l

CE50-30min at 5832mg/l

12.1.3. Aquatic toxicity:

Daphnia Magna (No known eco-toxic effects)

CE50-24h at 9,5%

CE50-24h at 5654mg/l

12.2 Persistence/degradability:

Diphoterine® solution is stable, but will decompose into simple salts in environment.

12.3 Bioaccumulative potential:

Diphoterine® solution does not bioaccumulate (log K_{ow}: 100 % soluble water).

12.4. Mobility in soil:

Liquid and soluble in water.

12.5. Results of PBT and vPvB assessment:

Not PBT / vPvB

12.6. Other adverse effects:

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

No specific disposal measures. Recycle containers.

SECTION 14: Transport information*

No transport regulation applies to the Diphoterine® solution.

RID/ADR*:

Non-regulated for Diphoterine® solution in itself. Packaging in conformity with the provisions applicable to the carriage of

IMDG:

dangerous goods packed in limited quantities (ADR, volume II: 3.4)

IATA:

No specific regulations for Diphoterine® solution in itself

No specific regulations for Diphoterine® solution in itself

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

	MICRO DAP	MINI DAP	DAP
UN or ID N°	UN 1950	UN 1950	UN 1013
Shipping name	Aerosols, non-flammable	Aerosols, non-flammable	carbon dioxide
Class	2,2	2,2	2,2
Packing instruction	203	203	200

14.5. Environmental hazards


Marine Pollutant:

No

14.6. Special precautions for user:

None

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	DIPHOTERINE®	Approved by: <i>J. SM</i>	Material Safety Data Sheet
			Page number : 4/4
Implemented on: 10.10.2003	Reference: MSDSDipho	Modified on: 17.12.2012	Update: 7
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:	Defined as a medical device by the 93/42/EC regulation. Product classified as non hazardous according to the CLP (1272/2008/EC) – regulation, (Classification, Labelling and Packaging of chemicals) incorporating GHS (Globally Harmonized System) in Europe MSDS elaborated in accordance with European regulation 453/2010/EC.		
15.2. Chemical safety assessment	N/A		
SECTION 16: Other information			
Recommended utilizations:	Use Diphoterine® solution immediately as primary action to wash eye and/or skin in cases of a corrosive or irritating chemical splashes (acids, bases, oxidizers, reducing agents or solvents). In cases of splashes due to hydrofluoric acid or fluorides in acidic medium, Hexafluorine® washing is more adapted.		
Ideal temperature of use:*	Between 15 and 35°C.		

This sheet complements the technical sheets but does not replace them. The information that is contained herein is based on the state of our knowledge related to the product concerned at the date of issue and is given in good faith. Moreover, the user's attention is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

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