	Revision nr. 2
SED00100122AA - BALL DEN INK BLACK 2220	Dated 18/01/2017
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Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: SFR00100122AA

Product name BALL PEN INK BLACK 2330

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

Intended use INK FOR BALLPOINT PENS

Identified Uses Industrial Professional Consumer
Inks

Uses Advised Against

Do not use for purposes other than those specified

1.3. Details of the supplier of the safety data sheet

Name HAINENKO LIMITED

Full address 284 Chase Road, Southgate, N14 6HF

District and Country

London
England

Tel. 020 8882 8734 Fax 020 8882 7749

e-mail address of the competent person

responsible for the Safety Data Sheet d.ashpole@hainenko.com

1.4. Emergency telephone number

For urgent inquiries refer to 020 8882 8734

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

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Hazard classification and indication:

Serious eye damage, category 1 H318 Causes serious eye damage.
Skin sensitization, category 1 H317 May cause an allergic skin reaction.

Hazardous to the aquatic environment, acute toxicity, H400 Very toxic to aquatic life.

category 1

Hazardous to the aquatic environment, chronic toxicity, H410 Very toxic to aquatic life with long lasting effects.

category 1

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words: Danger

Hazard statements:

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: wash with plenty of water / soap or other suitable material.

P310 Immediately call a POISON CENTER / a doctor / a center suitable for emergency medical advice.

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

rinsing.

Contains: [4-[P,P'-BIS(DIMETHYLAMINO)BENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE]DIMETHYLAMMONIUM M-

[[P-ANILINOPHENYL]AZO]BENZENESULPHONATE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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Identification Conc. % Classification 1272/2008 (CLP)

2-PHENOXYETHANOL

CAS 122-99-6 10 - 25 Acute Tox. 4 H302, Eye Irrit. 2 H319

EC 204-589-7 INDEX 603-098-00-9

Reg. no. 01-2119488943-21-xxxx

[4-[P,P'-

BIS(DIMETHYLAMINO)BENZHYDR YLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE]DIMETHYLAMMONIUM M-[[P-

ANILINOPHENYL]AZO]BENZENES

ULPHONATE

CAS 65113-55-5 5 - 15 Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Acute 1

H400 M=100, Aquatic Chronic 1 H410 M=100

EC 265-449-9

INDEX -

Reg. no. 01-2119982974-17-xxxx **2-METHYLPENTANE-2,4-DIOL**

CAS 107-41-5 1 - 10 Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-489-0 INDEX 603-053-00-3

Reg. no. 01-2119539582-35-xxxx

Note: Upper limit is not included into the range

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see section 11.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

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5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU Deutschland MAK-und BAT-Werte-Liste 2012

ESP España INSHT - Límites de exposición profesional para agentes químicos en España 2015 FRA France JORF n°0109 du 10 mai 2012 page 8773 texte n° 102

France JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 United Kingdom EH40/2005 Workplace exposure limits

GBR United Kingdom EH40/2005 Workplace exposure limits
POL Polska ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r

TLV-ACGIH ACGIH 2017

2-PHENOXYETHANOL

Threshold Limit Value

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Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	110	20	220	40	SKIN		
MAK	DEU	110	20	220	40	SKIN		
NDS	POL	230						
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water		0,943	mg	/I				
Normal value in marine water		0,0943	mg	/I				
Normal value for fresh water s		7,2366	mg/kg					
Normal value for marine water		0,7237	mg/kg					
Normal value for water, interm		3,44	mg	/I				
Normal value of STP microorg		24,8	mg	/I				
Normal value for the terrestria		1,26	mg	/kg				
Health - Derived no-effect level - DNEL / DMEL Effects on					Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral	VND	17,43 mg/kg	VND	systemic 17,43 mg/kg		systemic		systemic
Inhalation		bw/d	2,41 mg/m3	bw/d 2,41 mg/m3			8,07 mg/m3	8,07 mg/m3
Skin			VND	20,83 mg/kg			VND	34,72 mg/kg
SKIN			VND	20,83 mg/kg bw/d			VND	bw/d
2-METHYLPENTANE-2,4 Threshold Limit Value		TIMA (OL		OTEL 45				
Type	Country	TWA/8h		STEL/15min				
NAALZ	DE11	mg/m3	ppm	mg/m3	ppm			
MAK	DEU	49	10	98	20			
	ECD			400	0.5			
	ESP			123	25			
VLEP	FRA	100		125	25			
VLEP	FRA GBR	123	25	125 123				
VLEP WEL NDS	FRA	123	25	125 123 120 (C)	25 25			
VLEP WEL NDS TLV-ACGIH	FRA GBR POL	123	25	125 123	25			
VLEP WEL NDS TLV-ACGIH Predicted no-effect concentra	FRA GBR POL	123	25	125 123 120 (C) 121 (C)	25 25 25 (C)			
VLEP WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water	FRA GBR POL tion - PNEC	123	25	125 123 120 (C) 121 (C) 0,429	25 25 25 (C)			
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water	FRA GBR POL tion - PNEC	123	25	125 123 120 (C) 121 (C) 0,429 0,043	25 25 25 (C)			
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water	FRA GBR POL tion - PNEC	123	25	125 123 120 (C) 121 (C) 0,429 0,043 1,79	25 25 25 (C)			
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water Normal value in marine water	FRA GBR POL tion - PNEC	123	25	125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179	25 25 25 (C) mg mg	/I		
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water Normal value for fresh water sommal value for fresh water sommal value for marine water	FRA GBR POL tion - PNEC sediment r sediment	123	25	125 123 120 (C) 121 (C) 0,429 0,043 1,79	25 25 25 (C) mg mg	ı/l ı/kg ı/kg		
WEL NDS TLV-ACGIH Predicted no-effect concentral Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for marine water	FRA GBR POL tion - PNEC sediment r sediment nittent release	123	25	125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179	25 25 25 (C) mg mg	ı/l /kg ı/kg ı/l		
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for marine water Normal value for water, interm	FRA GBR POL tion - PNEC sediment r sediment nittent release ganisms		25	125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179 4,29	25 25 (C) mg mg mg mg mg mg	ı/l /kg ı/kg ı/l		
WEL NDS TLV-ACGIH Predicted no-effect concentral Normal value in fresh water Normal value for fresh water solven a value for marine water Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the food cha	FRA GBR POL tion - PNEC sediment r sediment nittent release ganisms in (secondary poison		25	125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179 4,29	25 25 (C) mg mg mg mg mg mg mg	/l /kg //kg /l		
WEL NDS TLV-ACGIH Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for marine water Normal value for marine water Normal value for the food cha Normal value for the terrestria	FRA GBR POL tion - PNEC sediment r sediment nittent release ganisms in (secondary poison al compartment ct level - DNEL / E Effects on	ing)	25	125 120 (C) 121 (C) 0,429 0,043 1,79 0,179 4,29 20 100	25 25 (C) mg mg mg mg mg mg mg mg	/l //kg //kg //kg //l //l		
Normal value for the food cha Normal value for the terrestria Health - Derived no-effect	FRA GBR POL tion - PNEC sediment r sediment nittent release ganisms in (secondary poison il compartment ct level - DNEL / L	ing)	25 Chronic local	125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179 4,29 20 100 0,11	25 25 (C) mg mg mg mg mg mg	//I //kg //kg //kg //l //l //kg //kg //kg Acute	Chronic local	Chronic
WEL NDS TLV-ACGIH Predicted no-effect concentral Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine water Normal value for water, interm Normal value of STP microorg Normal value for the food cha	FRA GBR POL tion - PNEC sediment r sediment rittent release ganisms in (secondary poison al compartment ct level - DNEL / E Effects on consumers	ing)		125 123 120 (C) 121 (C) 0,429 0,043 1,79 0,179 4,29 20 100 0,11	25 25 (C) mg	//l //kg //kg //kg //l //l //kg	Chronic local	Chronic

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 Skin
 VND
 1 mg/kg bw/d
 VND
 2 mg/kg bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance viscous liquid
Colour black
Odour imperceptible
Odour threshold Not available
pH Not available
Melting point / freezing point Not available
Initial boiling point > 100 °C

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Boiling range Not available Flash point > 90 °C Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density

Relative density 1,000 +/- 0,050 Kg/l Solubility immiscible with water Partition coefficient: n-octanol/water Not available

Auto-ignition temperature Not available Decomposition temperature Not available

Viscosity 5000 - 10000 mPa*s @ 25°C

Explosive properties not explosive Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 33,50 % - 335,00 g/litre VOC (volatile carbon): 20,28 % - 202,84 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-METHYLPENTANE-2,4-DIOL: decomposes under the effect of heat. Does not have any particular corrosive action on metals. Suitable materials are steel and aluminium.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-METHYLPENTANE-2,4-DIOL:avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials

2-METHYLPENTANE-2,4-DIOL:strong acids and strong oxidising agents.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

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2-METHYLPENTANE-2,4-DIOL

LD50 (Oral)4700 mg/kg Rat (Sherman) (male) - OECD Guideline 401

LD50 (Dermal)> 2000 mg/kg Rat - OECD Guideline 402

2-PHENOXYETHANOL LD50 (Oral)1250 mg/kg Rat

LD50 (Dermal)> 2000 mg/kg Rabbit - OECD TG 404

[4-[P,P'-BIS(DIMETHYLAMINO)BENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE]DIMETHYLAMMONIUM

M-[[P-

ANILINOPHENYL]AZO]BENZENESULPHONATE

LD50 (Oral)> 2000 mg/kg Rat (Sprague-Dawley) (female) - OECD Guideline 423

LD50 (Dermal)> 2000 mg/kg Rat (Sprague-Dawley) - OECD Guideline 402

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity

2-METHYLPENTANE-2,4-DIOL

LC50 - for Fish 8690 mg/l/96h Pimephales promelas - OECD Guideline 203
EC50 - for Crustacea 3200 mg/l/48h Daphnia magna - OECD Guideline 202

EC50 - for Algae / Aquatic Plants > 429 mg/l/72h Pseudokirchnerella subcapitata - OECD Guideline 201

2-PHENOXYETHANOL

LC50 - for Fish > 100 mg/l/96h Leuciscus idus

EC50 - for Crustacea > 500 mg/l/48h Daphnia magna and other aquatic invertebrates

EC50 - for Algae / Aquatic Plants > 500 mg/l/72h Algae

[4-[P,P'-

BIS(DIMETHYLAMINO)BENZHYDRYLIDEN

E]CYCLOHEXA-2,5-DIÉN-1-YLIDENE]DIMETHYLAMMONIUM M-[[P-

ANILINOPHENYLJAZOJBENZENESULPHON

ATF

EC50 - for Algae / Aquatic Plants 0,0034 mg/l/72h Pseudokirchnerella subcapitata - OECD Guideline 201

Chronic NOEC for Algae / Aquatic Plants < 0,001 mg/l

12.2. Persistence and degradability

2-METHYLPENTANE-2,4-DIOL

Solubility in water > 10000 mg/l

Rapidly degradable

% Biodegradability: 81% (28 days) - Method: OECD Guideline 301 F

2-PHENOXYETHANOL

Solubility in water 24000 mg/l

Rapidly degradable

Degradation: > 90% in 15 days (OECD TG 301 A)

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[4-[P,P'-

BIS(DIMETHYLAMINO)BENZHYDRYLIDEN

EJCYCLOHEXA-2,5-DIÉN-1-

YLIDENE]DIMETHYLAMMONIUM M-[[P-ANILINOPHENYL]AZO]BENZENESULPHON

ATE

NOT rapidly degradable

12.3. Bioaccumulative potential

2-METHYLPENTANE-2,4-DIOL

Partition coefficient: n-octanol/water < -0.14

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 3082

IATA:

14.2. UN proper shipping name

ADR / RID:

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ([4-[P,P'-

BIS(DIMETHYLAMINO)BENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE]DIMETHYLAMMONIUM M-[[P-

ANILINOPHENYL]AZO]BENZENESULPHONATE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCÉ, LIQUID, N.O.S. ([4-[P,P'-

BIS(DIMETHYLAMINO)BENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE]DIMETHYLAMMONIUM M-[[P-

ANILINOPHENYLJAZOJBENZENESULPHONĀTE)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9



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IATA: Class: 9 Label: 9

14.4. Packing group

ADR / RID, IMDG,

Ш

IATA:

14.5. Environmental hazards

ADR / RID:

Environmentally

Hazardous

IMDG:

Marine Pollutant

IATA:

Environmentally

Hazardous



14.6. Special precautions for user

ADR / RID:

Limited Quantities: 5 Tunnel restriction

code: (E)

Special Provision: -IMDG: EMS: F-A, S-F

Limited Quantities: 5

IATA: Cargo:

Packaging instructions:

Maximum

quantity: 450

964 Packaging

Maximum quantity: 450

instructions: 964

Special Instructions: A97, A158,

A197

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

3

Information not relevant

SECTION 15. Regulatory information

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

HIN - Kemler: 90

Pass.:

9i Seveso category

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

Substances in Candidate List (Art. 59 REACH)

None

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Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H302 Harmful if swallowed.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number

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CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.