		Dated 24/4/2015
SPMBIk1853 -	- Solperm Black 1853	Printed on 18/06/2015 Page n. 1/11
		I
	Safety data sheet	
SECTION 1. Identification of the su	bstance/mixture and of the company	y/undertaking
<b>1.1. Product identifier</b> Code: Product name	SPMBIk1853 Permanent Marker Black	
1.2. Relevant identified uses of the substance of Intended use	r mixture and uses advised against ink markers	
<b>1.3. Details of the supplier of the safety data sh</b> Name Full address District and Country	eet Hainenko Limited 284 Chase Road, Southgate London, United Kingdom N14 6HF	
e-mail address of the competent person responsible for the Safety Data Sheet	d.ashpole@hainenko.com	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	0044 20 8882 8734	
SECTION 2. Hazards identification.		
2.1. Classification of the substance or mixture.		
The product is classified as hazardous pursuant to supplements). The product thus requires a safety dat. Any additional information concerning the risks for he	asheet that complies with the provisions of EC Regul	ation 1907/2006 and subsequent amendments.
2.1.1. Regulation 1272/2008 (CLP) and following	amendments and adjustments.	
Hazard classification and indication: Flam. Liq. 2 Eye Irrit. 2	H225 H319	
2.1.2. 67/548/EEC and 1999/45/EC Directives and Danger Symbols: F	I following amendments and adjustments.	
R phrases: 11-67		
The full wording of the Risk (R) and hazard (H) phras	es is given in section 16 of the sheet.	
2.2. Label elements.		
Hazard labelling pursuant to EC Regulation 1272/200	8 (CLP) and subsequent amendments and suppleme	ents.
Hazard pictograms:		

ETHANOL         CAS. 64-17-5 EC. 200-578-6       50 - 70       F R11       Flam. Liq. 2 H225, Eye Irrit. 2 H319         INDEX. 603-002-00-5       INDEX. 603-002-00-5       F R10       F R10         Reg. no. 01-2119457610-43-xxxx       Yee Properties       Yee Properties         1-METHOXY-2-PROPANOL       9 - 13       R10, R67       F Iam. Liq. 3 H226, STOT SE 3 H336         CAS. 107-98-2 EC. 203-539-1       9 - 13       R10, R67       F Iam. Liq. 3 H226, STOT SE 3 H336         INDEX. 603-064-00-3       Reg. no. 01-2119457435-355       Yee Verties       Yee Verties         PROPAN-2-OL       Yee Verties       Yee Verties       Yee Verties	Dated 24/4/2015				
azard statements:           H225         Highly flammable liquid and vapour. Causes serious eye irritation.           recautionary statements:         Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container tightly closed. P303 Wear protective gloves / protective dothing / eye protection / face protection. Wear protective gloves / protective dothing / eye protection / face protection. P303-P303 HP33 HP33 HP33 HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HF ON SKIN (or har): take off immediately all contaminated clothing. Rinse skin with water / shower. HS ON SCIENCE Sc		ack 1853	3 - Solperm B	SPMBIk185	
lazard statements:           Highly flammable liquid and vapour. Causes serious eye irritation.           Precautionary statements:           P210         Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container tightly closed. P230         Week of the statements:           P210         Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container tightly closed. P330+P331         Week of the statements:           P330 P331         Keep container tightly closed. Week or protective globes / protective clothing / eye protection / face protection. P330+P331+P333         Week of the statements if eye initiation persists. Get medical advice / attention.           2.3. Other hazards.         IF ON SKIN (or hair): take of the medical advice / attention.         Statements / statements           SECTION 3. Composition/information on ingredients.         Statements         Statements           3.1. Substances.         Conc. %.         Classification \$7/548/EEC.         Classification 1272/2008 (CLI ETHANOL           CAS. 407.95         So - 70         Fn1         Pam. Lq. 2H28. Eye im. 2 H319           C. 200-578-6         So - 70         Fn1         Pam. Lq. 2H28. Eye im. 2 H319           INDEX 603-002-00-5         Reg. no. 01-2119457610-43-xxxx         Pam. Lq. 3H28. S107 BE 3 H336           MEMEX 603-002-00-5         Reg. no. 01-2119457610-43-xxxx         Pam. Lq. 2 H28. Eye im. 2 H318           INDEX 603-002-003         Reg. no. 01-2				!	
H225       Highly flammable liquid and vapour. Causes serious eye irritation.         recautionary statements:       P210       Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container lightly closed. Wear protective gloves / protective clothing / eye protection / face protection. P337+P333       Wear protective gloves / protective clothing / eye protection / face protection. P337+P333         P337+P333       If ON SKIN (or hair) take of immediately all containated clothing. Rinse skin with water / shower. If eye irritation persists: Get medical advice / attention.         2.3. Other hazards.       If eye irritation persists: Get medical advice / attention.         3.1. Substances.       SECTION 3. Composition/information on ingredients.         3.1. Substances.       If eye irritation persists: Gene. %.       Classification 67/548/EEC.       Classification 1272/2008 (CLI ETHANOL         CAS. 604-17-5       50 - 70       FR1       Pian. Liq. 2H225. Eye Intt. 2 H319         INDEX. 603-002-00-5       Reg. no. 01-2119457610-43-xxxx       Fam. Liq. 3 H226. STOT SE 3 H336         HETHONY-2PROPANOL       CAS. 107-98-2       9 - 13       R10. R67       Fam. Liq. 3 H226. STOT SE 3 H336         Reg. no. 01-2119457610-43-xxxx       Fam. Liq. 3 H226. STOT SE 3 H336       FC. 203-539-1       Fam. Liq. 3 H226. STOT SE 3 H336         Reg. no. 01-2119457610-43-xxxx       Fam. Liq. 3 H226. STOT SE 3 H336       FC. 203-639-1       Fam. Liq. 2 H225. Eye Intt. 2 H319. F130 <tr< td=""><td></td><td></td><td></td><td>Danger</td><td>Signal words:</td></tr<>				Danger	Signal words:
H319       Calusées serious eye irritation.         Precautionary statements:         P210       Keep away from heat / sparks / open flames / hot surfaces. No smoking.         P233       Keep container tightly closed.         P233       Keep container tightly closed.         P333 P361 + P353       IF ON SKIN (or hair), take off immediately all contaminated clothing. Rinse skin with water / shower.         P333 P361 + P353       IF ON SKIN (or hair), take off immediately all contaminated clothing. Rinse skin with water / shower.         P333 Other hazards.       If eye imitation persists: Get medical advice / attention.         A. Substances.       If eye imitation persists: Get medical advice / attention.         Statistication not relevant.       Statistication 67/548/EEC.       Classification 1272/2008 (CLI					lazard statements:
P210 P233 Reep container tightly closed. P280 Wear protective gloves / protective clothing / eye protection / face protection. P337+P313       Reep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. P337+P313       Reep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. If eye irritation persists: Get medical advice / attention.         2.3. Other hazards.       If eye irritation persists: Get medical advice / attention.         SECTION 3. Composition/information on ingredients.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistical in the eye irritation persists: Get medical advice / attention.         Statistin the eye irritation persists: Get medical advice / at					
P233         Keep container tightly closed.         P337         Keep container tightly closed.           P303+P361+P353         IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water / shower.           P337+P313         IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water / shower.           2.3. Other hazards.         If eye irritation persists: Get medical advice / attention.           state         SECTION 3. Composition/information on ingredients.           3.1. Substances.         state           information not relevant.         S.           3.2. Mixtures.         Section 67/548/EEC.         Classification 1272/2008 (CLI ethANOL           Case. 56. 64-17-5         50 - 70         FR11         Fiem. Liq. 2.14225, Eye Irmt. 2.14316           INDEX. 603-002-00-5         Reg. no. 01-2119457610-43-xxxx         Fiem. Liq. 3.14226, STOT SE 3.14386           Case. 56. 64-10-3         9 - 13         R10. R67         Fiem. Liq. 3.14226, STOT SE 3.14386           INDEX. 603-002-00-5         Pan. Liq. 3.14226, STOT SE 3.14386         Fiem. Liq. 3.14226, STOT SE 3.14386           INDEX. 603-002-00-5         Se 7.8         Fiem. Liq. 3.14226, STOT SE 3.14386           INDEX. 603-002-00-5         Se 7.8         Fiem. Liq. 3.14226, STOT SE 3.14386           INDEX. 603-002-00-5         Se 7.8         Fiem. Liq. 3.14226, STOT SE				ts:	Precautionary statements
Information not available.           SECTION 3. Composition/information on ingredients.           3.1. Substances.           Information not relevant.           3.2 Mixtures.           Contains:           Identification.         Conc. %.         Classification 67/548/EEC.         Classification 1272/2008 (CLI ETHANOL           CAS. 64-17-5           Conc. %.         Classification 67/548/EEC.         Classification 1272/2008 (CLI ETHANOL           CAS. 64-17-5           C. 200-578-6           INDEX. 603-002-00-5           Reg. no. 01-2119457610-43-xxxx           IMETAXY-2-PROPANOL           C. 203-539-1           INDEX. 603-002-00-5           Reg. no. 01-2119457610-43-xxxx           INDEX. 603-002-00-5           Reg. no. 01-2119457610-43-xxxx           INDEX. 603-004-00-3           Reg. no. 01-2119457435-35           PROPAN-2OL           CAS. 67-63-0         5-8           Ref. F. R11, XI R36         Fam. Lin, 2 H225, Eye Intt. 2 H319, STO H330           CAS. 67-63-0         S-	protection.	/ eye protection / face protection Il contaminated clothing. Rinse s	ly closed. /es / protective clothing ): take off immediately a	Keep container tight Wear protective glov IF ON SKIN (or hair)	P233 P280 P303+P361+P353
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1-METHOXY-2-PROPANOL         CAS. 107-98-2       9 - 13       R10, R67       Flam. Liq. 3 H226, STOT SE 3 H336         EC. 203-539-1       INDEX. 603-064-00-3       Flam. Liq. 3 H226, STOT SE 3 H336         INDEX. 603-064-00-3       Reg. no. 01-2119457435-35         PROPAN-2-OL       CAS. 67-63-0       5 - 8         CAS. 67-63-0       5 - 8       R67, F R11, Xi R36         Flam. Liq. 2 H225, Eye Irrit. 2 H319, STO H336       H336         INDEX. 603-117-00-0       INDEX. 603-117-00-0				5	
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PROPAN-2-OL         Second					
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Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = ExtremelyFlammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

## **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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately. INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person,

unless 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 chap. 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

## 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

## 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.

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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. 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. Check incompatibility for container material in section 7. 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.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

## 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. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure
	limits for use with the Control of Substances Hazardous to Health Regulations (as
	amended).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	2000/39/EC.
TLV-ACGIH	ACGIH 2012

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1-METHOXY-2-PROPANO	L						
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
OEL	EU	375	100	568	150	SKIN	
OEL	IRL	375	100	568	150		
TLV-ACGIH		369	100	553	150		
WEL	UK	375	100	560	150	SKIN	
PROPAN-2-OL							
Threshold Limit Value.	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
OEL	IRL		200		400	SKIN	
TLV-ACGIH		492	200	983	400		
WEL	UK	999	400	1250	500		

#### Legend:

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

### 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 I 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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.

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## **SECTION 9.** Physical and chemical properties.

## 9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate	liquid black alcoholic Not available. 7 Not available. Not available. 12 <= 21 °C. Not available.
•	•
0 0	
•	
•	
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.	0,900 Kg/l
Solubility	partially soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2 Other information	

#### 9.2. Other information.

VOC (Directive 1999/13/EC) :	77,24 %	-	695,16	g/litre.
VOC (volatile carbon):	40,42 %	-	363,74	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.

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

### 10.2. Chemical stability.

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

## 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

## 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

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1-METHOXY-2-PROPANOL: avoid exposure to the air.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **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. Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

ETHANOL LD50 (Oral). > 5000 mg/kg Rat LC50 (Inhalation). 120 mg/l/4h Pimephales promelas

1-METHOXY-2-PROPANOL LD50 (Oral). 5300 mg/kg Rat LD50 (Dermal). 13000 mg/kg Rabbit LC50 (Inhalation). 54,6 mg/l/4h Rat

PROPAN-2-OL LD50 (Oral). 4710 mg/kg Rat LD50 (Dermal). 12800 mg/kg Rat LC50 (Inhalation). 72,6 mg/l/4h Rat

## **SECTION 12. Ecological information.**

12.1. Toxicity. Information not available.

12.2. Persistence and degradability.

Information not available.

#### 12.3. Bioaccumulative potential.

Information not available.

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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.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

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Label:	3		
HIN - Kemler:	33		
Limited Quantitie	s. 5 L		
Tunnel restriction	n code. (D/E)		
Proper Shipping	Name: PRINT	TING INK or PRINTING INK RELATE	D MATERIAL
Special Provision	n: 640C		
Carriage by sea (shipping	):		
IMO Class:	3	UN:	1210
3			
Packing Group:	II		
Label:	3		
EMS:	F-E, S	-D	
Marine Pollutant.	NO		
Proper Shipping	Name: PRINT	TING INK or PRINTING INK RELATE	D MATERIAL

image: bit if:         3         UN:         1210           Privation Group:         II         1         1210           Packing Group:         II         1         1210           Packing for instructions:         3         3         UN:         1210           Packing for instructions:         3         3         UN:         51           Packing for instructions:         363         Maximum quanity:         61           Spacial instructions:         3, 372         Proper Shipping Name:         51           Proper Shipping Name:         PRINTING INK or PRINTING INK RELATED MATERIAL         Sectore Stategool         70           Restrictions relating to the product or contained substances pursuant to Annex XVI to EC Regulation 1907/2006.         Sectore Stategool         70           Substances in Candidate List (At: 59 REACH):         None         Sectore Stategool         70           Substances subject to authorisation (Annex XVI REACH):         None         Sectore Stategool         9 - 40           Substances subject to authorisation (Convention:         Sectore Stategoolity in Stat	ATA: 3 UN: 1210   Packing Group: II   Labe: 3   Packaging instructions: 364   Pass: Passigning instructions: 51   Special Instructions: 353   Maximum quantity: 51   Special Instructions: A3, A72   Proper Shipping Name: PRINTING INK or PRINTING INK RELATED MATERNAL   Statisticities relation to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions relating to the product or contained substances pursuant to Annex XVIII to EC Regulation 1907/2006. Toketrictions subject to authorisation (Annex XVI REACH). Toketrictions subject to authorisation reporting pursuant to (EC) Reg. 649/2012: Toketrictions: <p< th=""><th></th><th>SPMBIk1853 -</th><th>Solperm Bla</th><th>ick 1853</th><th>Revision nr. 3 Dated 24/4/2015 Printed on 18/06/2015 Page n. 9/11</th></p<>		SPMBIk1853 -	Solperm Bla	ick 1853	Revision nr. 3 Dated 24/4/2015 Printed on 18/06/2015 Page n. 9/11
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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:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R36	IRRITATING TO EYES.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

LEGEND:

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

GENERAL BIBLIOGRAPHY 1. Directive 1999/45/EC and following amendments

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- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
   Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
  12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

15. ECHA website 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.

Changes to previous review:

The following sections were modified:

09.