

Q 300940



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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PUTTS EOSIN

Revision 2

Revision date 2015-10-07

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

1.1. Product identifier

Product name	PUTTS EOSIN
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU20] Health services; [PC21] Laboratory chemicals; [PROC15] Use as laboratory reagent; ----- [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU20] Health services; [PC21] Laboratory chemicals; [PROC11] Non industrial spraying;
Description	Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company	CellPath Ltd
Address	80 Mochdre Enterprise Park, Newtown, Powys, SY16 4LE, UK
Web	www.cellpath.co.uk
Telephone	+44 (0) 1686 611333
Fax	+44 (0) 1686 622946
Email	sales@cellpath.co.uk
Email address of the competent person	qhse@cellpath.co.uk

1.4. Emergency telephone number

Emergency telephone number	+44 (0) 7803 746 135 24 hours
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


2.1.1. Classification - 1999/45/EC	T; R45-46-60-61 Xn; R20 Symbols: T: Toxic.
Main hazards	Harmful by inhalation. May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.
2.1.2. Classification - EC 1272/2008	Eye Irrit. 2: H319; Acute Tox. 4: H332; Muta. 1B: H340; Carc. 1B: H350; Aquatic Chronic 3: H412;

2.2. Label elements

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Muta. 1B: H340 - May cause genetic defects . Carc. 1B: H350 - May cause cancer . Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

2.3. Other hazards

Other hazards	No data is available on this product.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
ETHANOL. (Ethanol)		64-17-5	200-578-6	01-2119457610-43	1 - 10%	F; R11	
Methanol	603-001-00-X	67-56-1	200-659-6	01-2119433307-44	0 - 0.5%	F; R11 T; R23/24/25-39/23/24/25	
Picric acid	609-009-00-X	88-89-1	201-865-9		0 - 0.5%	E; R3 R4 T; R23/24/25	
Potassium dichromate	024-002-00-6	7778-50-9	231-906-6	01-2119454792-32	0 - 0.5%	O; R8 Carc. Cat. 2; R45 Muta. Cat. 2; R46 Repr. Cat. 2; R60-61 T+; R26 T; R25-48/23 Xn; R21 C; R34 R42/43 N; R50/53	

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3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor
ETHANOL. (Ethanol)		64-17-5	200-578-6	01-2119457610-43	1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319;	
Methanol	603-001-00-X	67-56-1	200-659-6	01-2119433307-44	0 - 0.5%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;	
Picric acid	609-009-00-X	88-89-1	201-865-9		0 - 0.5%	Expl. 1.1: H201; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301;	
Potassium dichromate	024-002-00-6	7778-50-9	231-906-6	01-2119454792-32	0 - 0.5%	Ox. Sol. 2: H272; Carc. 1B: H350; Muta. 1B: H340; Repr. 1B: H360FD; Acute Tox. 2: H330; Acute Tox. 3: H301; STOT RE 1: H372; Acute Tox. 4: H312; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

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

Inhalation	Toxic by inhalation. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	Toxic in contact with skin.
Ingestion	Toxic if swallowed. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.

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

Inhalation	Seek medical attention.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.

Further information

See section 11 for further information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO₂), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes. See section 10 for further information.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary. Wear chemical protective clothing.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment. Self-contained breathing apparatus must be used in handling.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

See section 2,8,13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers. See section 10 for further information.

7.3. Specific end use(s)

See section 1.2 for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

See section 8.2 for further information.

8.1.1. Exposure Limit Values

ETHANOL. (Ethanol)	WEL 8-hr limit ppm: 1000	WEL 8-hr limit mg/m3: 1920
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Methanol	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m3: 266
	WEL 15 min limit ppm: 250	WEL 15 min limit mg/m3: 333
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Picric acid	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 0.3
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls



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8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Self-contained breathing apparatus must be used in handling.
Thermal hazards	See section 10.6 for further information.
8.2.3. Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red
Odour	Characteristic
Odour threshold	No data available
pH	≈ 5
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.995 g/cm ³
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

Water solubility

Soluble in water.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

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10.2. Chemical stability	
	Stable under normal conditions.

10.3. Possibility of hazardous reactions	
	No data is available on this product.

10.4. Conditions to avoid	
	No data is available on this product.

10.5. Incompatible materials	
	No data is available on this product.

10.6. Hazardous decomposition products	
	No data is available on this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause cancer.
Skin corrosion/irritation	Toxic in contact with skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	Toxic by inhalation. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	May cause cancer.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	No data is available on this product.
STOT-repeated exposure	No data is available on this product.
Aspiration hazard	No data is available on this product.
Repeated or prolonged exposure	No data is available on this product.

11.1.4. Toxicological Information

ETHANOL.	Oral Rat LD50: 10470 mg/kg Inhalation Rat LC50/4 h: 124 mg/l	Dermal Rabbit LD50: 17100 mg/kg
Potassium dichromate	Oral Rat LD50: 90.5 mg/kg Inhalation Rat LC50/4 h: 0.088 mg/l	Dermal Rabbit LD50: 14 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

ETHANOL.	Daphnia EC50/48h: 100.000000 mg/l	
Methanol	Daphnia EC50/48h: 1000.000000 mg/l Lepomis_Macrochirus LC50/96h: 15400 mg/l	Green algae EC50/96h: 22000 mg/l
Potassium dichromate	Fish LC50/96h: 0.131000 mg/l	

12.2. Persistence and degradability

	Readily biodegradable.
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12.3. Bioaccumulative potential

	No data is available on this product.
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BCF: Bioconcentration factor.

Potassium dichromate	BCF: Bioconcentration factor. 17.4 L/kg
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Partition coefficient

PUTTS EOSIN No data available
Methanol -0.8 log PETHANOL. -0.35 log P
Potassium dichromate 5 log P

12.4. Mobility in soil

Soluble in water.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

Further information

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:

- 1 - Product Use.
- 2 - 2.1. Classification of the substance or mixture.
- 2 - 2.1.2. Classification - EC 1272/2008.
- 2 - Hazard pictograms.
- 2 - Signal Word.
- 2 - Precautionary Statement: Prevention.
- 2 - Precautionary Statement: Response.
- 2 - Precautionary Statement: Storage.
- 2 - Precautionary Statement: Disposal.
- 9 - 9.1. Information on basic physical and chemical properties (PH).
- 9 - 9.1. Information on basic physical and chemical properties (Relative density).
- 9 - 9.1. Information on basic physical and chemical properties (Odour threshold).
- 12 - 12.1. Toxicity.
- 15 - Risk phrases.

Text of risk phrases in Section 3

- R3 - Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R4 - Forms very sensitive explosive metallic compounds.
- R8 - Contact with combustible material may cause fire.
- R11 - Highly flammable.
- R21 - Harmful in contact with skin.
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
- R25 - Toxic if swallowed.
- R26 - Very toxic by inhalation.
- R34 - Causes burns.
- R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R42/43 - May cause sensitisation by inhalation and skin contact.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R60 - May impair fertility.
- R61 - May cause harm to the unborn child.

Text of Hazard Statements in Section 3

- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Acute Tox. 3: H301 - Toxic if swallowed.
- Acute Tox. 3: H311 - Toxic in contact with skin.
- Acute Tox. 3: H331 - Toxic if inhaled.
- STOT SE 1: H370 - Causes damage to organs .
- Expl. 1.1: H201 - Explosive; mass explosion hazard.
- Ox. Sol. 2: H272 - May intensify fire; oxidiser.
- Acute Tox. 4: H312 - Harmful in contact with skin.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.