SAFETY DATA SHEET

Malachite Green

According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of the	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Malachite Green
Product number	PL.7030, PL.7030/25, PL.7030/100, PL.7031, PL.7032
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Laboratory reagent.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of the	ne safety data sheet
Supplier	Pro-Lab Diagnostics 3 Bassendale Road Wirral Merseyside CH62 3QL Tel: 0151 353 1613 Fax: 0151 353 1614 mowen@pro-lab.com
1.4. Emergency telephone nur	nber
Emergency telephone	+44 (0)151 353 1613 Monday to Friday 9.00 to 17.00 +44 (0)7714 429 646 outside the above hours
SECTION 2: Hazards identifica	ation
2.1. Classification of the subst	ance or mixture
Classification (EC 1272/2008)	
Physical hazards	Flam. Liq. 3 - H226
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412
Classification (67/548/EEC or 1999/45/EC)	R52/53, R10
2.2. Label elements	
Pictogram	



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour. H412 Harmful to aquatic life with long lasting effects.

Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
Supplementary precautionary	P233 Keep container tightly closed.
statements	P240 Ground/ bond container and receiving equipment.
	P241 Use explosion-proof electrical equipment.
	P242 Use only non-sparking tools.
	P243 Take precautionary measures against static discharge.
	P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ethanol		10 - <25%
CAS number: 64-17-5	EC number: 200-578-6	
Substance with National workplace	ce exposure limits.	
Classification	Classificati	on (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F; R11	
methanol		1 - <2.5%
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01- 2119433307-44-XXXX
Classification	Classificatio	on (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225		R23/24/25, R39/23/24/25
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		
malachite green oxalate		0.25 - <0.5%
CAS number: 2437-29-8	EC number: 219-441-7	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification	Classificatio	on (67/548/EEC or 1999/45/EC)
Acute Tox. 3 - H301		; R41. Repr. Cat. 3 R63. N; R50/53
Eye Dam. 1 - H318		,
Repr. 2 - H361d		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Keep affected person away from heat, sparks and flames.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. If in doubt, get medical attention promptly.
Skin contact	Rinse cautiously with water for several minutes. Remove contaminated clothing. Wash contaminated clothing before reuse.
Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
4.2. Most important symptoms	and effects, both acute and delayed
Inhalation	If large concentrations are inhaled: Dizziness. Drowsiness.
Ingestion	May cause discomfort if swallowed.
Skin contact	Causes mild skin irritation. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.
4.3. Indication of any immediat	e medical attention and special treatment needed
Notes for the doctor	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
SECTION 5: Firefighting meas	ures
SECTION 5: Firefighting meas 5.1. Extinguishing media	ures
	ures Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
5.1. Extinguishing media	
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. In the substance or mixture
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. In the substance or mixture
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards 5.3. Advice for firefighters Protective actions during	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. <u>om the substance or mixture</u> Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from Specific hazards 5.3. Advice for firefighters Protective actions during firefighting Special protective equipment 	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self- contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.
 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from Specific hazards 5.3. Advice for firefighters Protective actions during firefighting Special protective equipment for firefighters SECTION 6: Accidental release 	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self- contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

ersonal precautions	Follow precautions for safe handling described in this safety data sheet. No smoking, sparks,
	flames or other sources of ignition near spillage. Provide adequate ventilation. Keep
	unnecessary and unprotected personnel away from the spillage. Treat the spilled material
	according to the instructions in the clean-up section.

6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. The product contains substances which are water-soluble and may spread in water systems. The product contains volatile substances which may spread in the atmosphere.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact. Avoid the formation of mists. Ground/bond container and receiving equipment.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Wash promptly with soap and water if skin becomes contaminated.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Keep at temperature not exceeding 25°C.
Storage class	Flammable liquid storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Contro	Is/personal protection
8.1. Control parameters	
Occupational exposure limits ethanol	
Long-term exposure limit (8-ho	pur TWA): WEL 1000 ppm 1920 mg/m³
methanol	
8.2. Exposure controls	
Appropriate engineering controls	Avoid inhalation of vapours and spray/mists. Good general ventilation should be adequate to control worker exposure to airborne contaminants. In case of insufficient ventilation, wear suitable respiratory equipment.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended. The breakthrough time for any glove material may be different for different glove manufacturers.
Other skin and body protection	Wear anti-static protective clothing if there is a risk of ignition from static electricity.
Hygiene measures	Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Green.
Odour	Alcoholic.
рН	Not relevant.
Melting point	Not relevant.
Initial boiling point and range	78 - 100°C @ 1013 hPa
Flash point	~ 45°C
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not relevant.
Relative density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
Other information	None.
SECTION 10: Stability and rea	activity

10.1. Reactivity

Reactivity

No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability Stability Stable at normal ambient temperatures and when used as recommended. 10.3. Possibility of hazardous reactions Possibility of hazardous Acids. Alkalis. Oxidising agents. reactions 10.4. Conditions to avoid Conditions to avoid Avoid heat, flames and other sources of ignition. 10.5. Incompatible materials Materials to avoid Acids. Alkalis. Oxidising agents. 10.6. Hazardous decomposition products Hazardous decomposition Thermal decomposition or combustion products may include the following substances: products Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx). Hydrocarbons. Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral	
Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	15,831.93964289
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	20,568.5137192
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
ATE inhalation (gases ppm)	47,993.19867813
ATE inhalation (vapours mg/l)	205.68513719
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

ethanol

Toxicological information on ingredients.

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	10,470.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	10,470.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC∞ vapours mg/l)	124.7
Species	Rat
Notes (inhalation LC₅₀)	REACH dossier information. Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l)	124.7
Skin corrosion/irritation	
Animal data	Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating.
Skin sensitisation	
Skin sensitisation	Guinea pig maximization test (GPMT) - Mouse: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Carcinogenicity	
IARC carcinogenicity	IARC Group 1 Carcinogenic to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 15 %, Oral, Mouse P REACH dossier information.

7/13

Reproductive toxicity -	Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.
development	

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

methanol

Acute toxicity - oral	
Notes (oral LD₅₀)	International Programme on Chemical Safety (IPCS) (1997) Environmental Health Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.
ATE oral (mg/kg)	300.0
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.
ATE dermal (mg/kg)	300.0
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Converted acute toxicity point estimate (cATpE) Toxic if inhaled.
ATE inhalation (gases ppm)	700.0
ATE inhalation (vapours mg/l)	3.0
Skin corrosion/irritation	
Animal data	Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.
Serious eye damage/irritat	lion
Serious eye damage/irritat Serious eye damage/irritation	tion Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.
Serious eye	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available
Serious eye damage/irritation	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available
Serious eye damage/irritation Skin sensitisation	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
Serious eye damage/irritation Skin sensitisation Skin sensitisation	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u>	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u> STOT - single exposure	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. ity - single exposure STOT SE 1 - H370
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u> STOT - single exposure	 Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. ity - single exposure STOT SE 1 - H370 Eyes Central nervous system
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u> STOT - single exposure Target organs	 Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. ity - single exposure STOT SE 1 - H370 Eyes Central nervous system
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u> STOT - single exposure Target organs <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. ity - single exposure STOT SE 1 - H370 Eyes Central nervous system <u>malachite green oxalate</u>
Serious eye damage/irritation <u>Skin sensitisation</u> Skin sensitisation <u>Specific target organ toxic</u> STOT - single exposure Target organs <u>Acute toxicity - oral</u> Acute toxicity oral (LD ₅₀ mg/kg)	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met. Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met. ity - single exposure STOT SE 1 - H370 Eyes Central nervous system <u>malachite green oxalate</u> 275.0

Serious eye damage/irritation	Eye Dam. 1 - H318 Causes serious eye damage.
Reproductive toxicity	
Reproductive toxicity - development	Repr. 2 - H361d Suspected of damaging the unborn child.

12.1. Toxicity

Toxicity

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

ethanol

Acute toxicity - fish	LC₅₀, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC₅₀, 48 hours: 5012 mg/l, Ceriodaphnia dubia REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 11.5 mg/l, Chlorella vulgaris REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 9 days: 9.6 mg/l, Daphnia magna REACH dossier information.
	methanol
Acute toxicity - fish	LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill) EC₅₀, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC₅₀, 96 hours: 18260 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	IC₅₀, 3 hours: >1000 mg/l, Activated sludge REACH dossier information.
	malachite green oxalate
Toxicity	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	
LE(C)₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Chronic aquatic toxicity	
M factor (Chronic)	1
12.2. Persistence and degradability	

Permistence and degradability. There a	re no data an the degradability of this product. Valatile substances are degraded in the
	re no data on the degradability of this product. Volatile substances are degraded in the nere within a few days.
Ecological information on ingredients.	
	ethanol
Biodegradation	Water - Degradation (74%): 10 days REACH dossier information. The substance is readily biodegradable.
Chemical oxygen demand	1.99 g O ₂ /g substance REACH dossier information.
	methanol
Phototransformation	Water - DT₅₀: 17.2 days REACH dossier information.
Biodegradation	Water - Degradation (95%): 20 days Water - Degradation (91%): 15 days Water - Degradation (88%): 10 days Water - Degradation (76%): 5 days REACH dossier information. The substance is readily biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential Not determine Partition coefficient Not determine	
	arnined.
Ecological information on ingredients.	
	ethanol
Partition coefficient	log Pow: - 0.35 REACH dossier information.
	methanol
Partition coefficient	log Pow: -0.77 REACH dossier information.
12.4. Mobility in soil	
•	duct contains organic solvents which will evaporate easily from all surfaces. The contains substances which are water-soluble and may spread in water systems.
Ecological information on ingredients.	
	ethanol
Surface tension	24.5 mN/m @ 20°C/68°F REACH dossier information.
	methanol

Mobility

Mobile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB. assessment

12.6. Other adverse effects

Other adverse effects	Not relevant.
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	<u>s</u>
General information	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out.
Disposal methods	Do not empty into drains. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993
14.2. UN proper shipping name	8
Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (ethanol)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (ethanol)
14.3. Transport hazard class(e	<u>(a)</u>
ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3
Transport labels	
14.4. Packing group	
ADR/RID packing group	III

IMDG packing groupIIIADN packing groupIII

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

Ш

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

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

Transport in bulk according to Not relevant. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations	EH40/2005 Workplace exposure limits.
EU legislation	Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Flam. Liq. 3 - H226: Expert judgement. Aquatic Chronic 3 - H412: Calculation method.
Revision comments	Classification according to EC 1272/2008 (CLP).
Revision date	27/09/2016
Revision	7
Supersedes date	09/04/2015
SDS number	809

Risk phrases in full	R10 Flammable.
	R11 Highly flammable.
	R22 Harmful if swallowed.
	R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
	R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact
	with skin and if swallowed.
	R41 Risk of serious damage to eyes.
	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R63 Possible risk of harm to the unborn child.
Hazard statements in full	H225 Highly flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H226 Flammable liquid and vapour.
	H226 Flammable liquid and vapour. H301 Toxic if swallowed.
	H226 Flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin.
	H226 Flammable liquid and vapour.H301 Toxic if swallowed.H311 Toxic in contact with skin.H318 Causes serious eye damage.
	 H226 Flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H318 Causes serious eye damage. H331 Toxic if inhaled.
	 H226 Flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H318 Causes serious eye damage. H331 Toxic if inhaled. H361d Suspected of damaging the unborn child. H370 Causes damage to organs (Eyes, Central nervous system). H400 Very toxic to aquatic life.
	 H226 Flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H318 Causes serious eye damage. H331 Toxic if inhaled. H361d Suspected of damaging the unborn child. H370 Causes damage to organs (Eyes, Central nervous system).
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