Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

SAFETY DATA SHEET

Shoe Dye LRC66

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

1.1 Product identifier

Product name	**:**	Shoe Dye
Product code	**:**	LRC66
Product description	**:**	Liquid dye
Product type	**:**	liquid
Other means of identification	**:**	Not available.

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

Identified uses
Product for treatment of leather and other flexible material.

Uses advised against
Not applicable.

1.3 Details of the supplier of the safety data sheet

Leather Repair Company
Unit 22 Argyle Street Factory Estate,
Hull, East Yorkshire
HU3 1HD, England
Telephone: 44 (0)1482 606864
Email: help@leatherrepaircompany.com

1.4 Emergency telephone number

Tel 44 (0)1482 606864

National advisory body/Poison Centre

Telephone number	**:**	Not available.

Supplier

Telephone number	**:**	44 (0)1482 606864
Hours of operation	**:**	7.30am to 4pm
Information limitations	**:**	Not available.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226
Eye Irrit. 2, H319
Repr. 2, H361d
STOT SE 3, H335 (Respiratory tract irritation)
Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H226 - Flammable liquid and vapour.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H361d - Suspected of damaging the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.

Response : P370 - In case of fire: P378 - Use dry chemical, carbon dioxide, water spray (fog) or foam to extinguish. P308 - IF exposed or concerned: P308 + P313 - Get medical advice or attention. P304 - IF INHALED: P304 + P312 - Call a POISON CENTER or doctor if you feel unwell. P305 - IF IN EYES: P305 + P351 + P338 - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 - If eye irritation persists: P337 + P313 - Get medical advice or attention.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : 4-hydroxy-4-methylpentan-2-one

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
4-hydroxy-4-methylpentan-2-one	REACH#: 01-2119473975-21 EC : 204-626-7 CAS : 123-42-2 Index : 603-016-00-1	>= 35 - <= 50	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Repr. 2, H361d (oral) STOT SE 3, H335 (Respiratory tract irritation)	[1]
2-(2-butoxyethoxy)ethanol	REACH#: 01-2119475104-44 EC : 203-961-6 CAS : 112-34-5 Index : 603-096-00-8	>= 25 - <= 35	Eye Irrit. 2, H319	[1] [2]
1-methoxy-2-propanol	REACH#: 01-2119457435-35 EC : 203-539-1 CAS : 107-98-2 Index : 603-064-00-3	>= 15 - < 20	Flam. Liq. 3, H226 STOT SE 3, H336 (Narcotic effects)	[1] [2]
C.I. Acid Various 226.1	EC : 274-183-2 CAS : 69882-08-2	>= 10 - <= 15	Aquatic Chronic 2, H411	[1]
(2-methoxymethylethoxy)propanol	REACH#: 01-2119450011-60 EC : 252-104-2 CAS : 34590-94-8	>= 0,2 - <= 1	Not classified.	[2]

Type

[1] Substance classified with a physical, health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern

See Section 16 for the full text of the H statements declared above.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation, coughing, reduced foetal weight, increase in foetal deaths, skeletal malformations
Skin contact	:	Adverse symptoms may include the following: reduced foetal weight, increase in foetal deaths, skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced foetal weight, increase in foetal deaths, skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use dry chemical, CO_2, water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	:	Non-explosive in the presence of the following materials or

conditions: open flames, sparks and static discharge and shocks and mechanical impacts

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety

precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Keep from freezing. Stir before use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5.000 t	50.000 t

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	**EU OEL (2006-02-01).** TWA 67,5 mg/m3 10 ppm STEL 101,2 mg/m3 15 ppm

1-methoxy-2-propanol	**EU OEL (2000-06-01). Absorbed through skin..** TWA 375 mg/m3 100 ppm STEL 568 mg/m3 150 ppm
(2-methoxymethylethoxy)propanol	**EU OEL (2000-06-01). Absorbed through skin..** TWA 308 mg/m3 50 ppm TWA 308 mg/m3 50 ppm

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
1-methoxy-2-propanol	DNEL	Long term Inhalation	369,000 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	553,500 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	553,500 mg/m³	Workers	Local
	DNEL	Long term Dermal	183,000 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43,900 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	78,000 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	33,000 mg/m³	General population [Consumers]	Systemic

PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
2-(2-butoxyethoxy)ethanol	PNEC	Freshwater -	11 mg/l	Assessment

		intermittent		Factors
	PNEC	Fresh water	1,1 mg/l	Assessment Factors
	PNEC	Marine	0,11 mg/l	Assessment Factors
	PNEC	Sewage Treatment Plant	200 mg/l	Assessment Factors
	PNEC	Fresh water sediment	4,4 mg/kg dwt	Equilibrium Partitioning
	PNEC	Marine water sediment	0,44 mg/kg dwt	Equilibrium Partitioning
	PNEC	Soil	0,32 mg/kg dwt	Equilibrium Partitioning
1-methoxy-2-propanol	PNEC	Freshwater - intermittent	100 mg/l	Assessment Factors
	PNEC	Fresh water	10 mg/l	Assessment Factors
	PNEC	Marine	1 mg/l	Assessment Factors
	PNEC	Sewage Treatment Plant	100 mg/l	Assessment Factors
	PNEC	Fresh water sediment	52,3 mg/kg dwt	Equilibrium Partitioning
	PNEC	Marine water sediment	5,2 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of

		mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Colour	:	Various
Odour	:	Solvent.
Odour threshold	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	100 °C (100 °C)
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	**Lower:** Not available. **Upper:** Not available.
Flash point	:	Closed cup: 52 °C (52 °C)
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
pH	:	Not available.
Viscosity	:	**Dynamic :** Not available. **Kinematic :** Not available.

Solubility(ies)	:	Miscible in water.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not applicable.
Vapour pressure	:	Not available.
Evaporation rate	:	Not available.
Relative density	:	0,995 - 1,005 @ 20 °C (20 °C)
Density	:	0,995 - 1,005 g/cm3
Vapour density	:	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
VOC (2004/42/EC)	:	82,5 % w/w

Definition according to EU Directive 2004/42/EC: All organic compounds with a boiling point of <= 250 °C at 101,3 kPa

VOC (2010/75/EU)	:	57,3 % w/w

Definition according to EU Directive 2010/75/EU: all organic compounds with a vapour pressure of => 0,01 kPa at 293,15 K

Particle characteristics

Median particle size	:	Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Not considered to be reactive according to our database.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol				
	LD50 Oral	Rat - Male	2.410 mg/kg 401 Acute Oral Toxicity	-
	LD50 Dermal	Rabbit - Male	2.764 mg/kg 402 Acute Dermal Toxicity	-
1-methoxy-2-propanol				
	LD50 Oral	Rat	4.016 mg/kg B.1 Acute Toxicity (Oral)	-
	LD50 Dermal	Rat - Male	> 2.000 mg/kg B.3 Acute Toxicity (Dermal)	-
C.I. Acid Various 226.1				
	LD50 Oral	Rat	> 5.000 mg/kg	-
	LD50 Dermal	Rat - Male	> 2.000 mg/kg 402 Acute Dermal Toxicity	-

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapours)	Inhalation (dusts and mists)
2-(2-butoxyethoxy)ethanol	2.410 mg/kg	2.764 mg/kg	N/A	N/A	N/A
1-methoxy-2-propanol	4.016 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Skin - Oedema 404 Acute Dermal Irritation/Corrosion	Rabbit	0,56	1 hrs	8 d
	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1,78	4 hrs	72 hrs
	Eyes - Moderate irritant	Rabbit	-		-
1-methoxy-2-propanol	Skin - Oedema B.4 Acute Toxicity: Dermal Irritation/corrosion	Rabbit	0	4 hrs	72 hrs
	Eyes - Mild irritant	Rabbit	-	24 hrs	-

	Skin - Erythema/Eschar B.4 Acute Toxicity: Dermal Irritation/corrosion	Rabbit	0	4 hrs	72 hrs
	Skin - Mild irritant	Rabbit	-		-
	Eyes - Cornea opacity	Rabbit	0,1		72 hrs
	Eyes - Iris lesion	Rabbit	0		72 hrs
	Eyes - Redness of the conjunctivae	Rabbit	1,5		72 hrs
	Eyes - Oedema of the conjunctivae	Rabbit	0		72 hrs
C.I. Acid Various 226.1	Skin - Oedema 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 hrs	72 hrs
Remarks:	Read-across				
	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 hrs	72 hrs
Remarks:	Read-across				
	Eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	0		72 hrs
Remarks:	Read-across				
	Eyes - Iris lesion 405 Acute Eye Irritation/Corrosion	Rabbit	0		72 hrs
Remarks:	Read-across				
	Eyes - Redness of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0		72 hrs
Remarks:	Read-across				
	Eyes - Oedema of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0		72 hrs
Remarks:	Read-across				

Conclusion/Summary

Skin : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Eyes : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Respiratory : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2-(2-butoxyethoxy)ethanol	Skin	Guinea pig	Not sensitizing 406 Skin Sensitization

1-methoxy-2-propanol	Skin	Guinea pig	Not sensitizing B.6 Skin sensitization
C.I. Acid Various 226.1	Skin	Guinea pig	Not sensitizing 406 Skin Sensitization

Conclusion/Summary

Skin : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Respiratory : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-(2-butoxyethoxy)ethanol	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Negative
Remarks:	Read-across		
	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Negative
1-methoxy-2-propanol	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: +/- Experiment: In vitro	Negative
	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Metabolic activation: +/- Experiment: In vitro	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Subject: Mammalian-Animal Cell: Bone marrow Metabolic activation: +/- Experiment: In vivo	Negative
C.I. Acid Various 226.1	471 Bacterial Reverse Mutation Test	Subject: Bacteria Metabolic activation: with and without Experiment: In vitro	Negative
Remarks:	Read-across		
	473 In vitro Mammalian Chromosomal Aberration Test	Subject: Mammalian-Animal Metabolic activation: with and without Experiment: In vitro	Negative
Remarks:	Read-across		
	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Experiment: In vitro	Negative
Remarks:	Read-across		

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Carcinogenicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Reproductive toxicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Teratogenicity

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
4-hydroxy-4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : May cause respiratory irritation.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing, reduced foetal weight, increase in foetal deaths, skeletal malformations
Skin contact : Adverse symptoms may include the following: reduced foetal weight, increase in foetal deaths, skeletal malformations
Ingestion : Adverse symptoms may include the following: reduced foetal weight, increase in foetal deaths, skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : The product itself has not been tested. The classification is based on the available information for the individual ingredients.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : Suspected of damaging the unborn child.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol			
	Acute LC50 1.300 mg/l Fresh water 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute EC50 > 1.101 mg/l Fresh water QSAR	Daphnia	48 h
	Acute EC50 1.101 mg/l Fresh water 201 Alga, Growth Inhibition Test	Aquatic plants	72 h
	Acute EC50 > 1.995 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	3 h
	Chronic NOEC 112 mg/l Fresh water QSAR	Daphnia	14 d
1-methoxy-2-propanol			
	Acute LC50 > 1.000 mg/l Fresh water 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute EC50 23.300 mg/l Fresh water	Daphnia	48 h
	Acute IC50 > 100 mg/l Fresh water 209 Activated Sludge, Respiration Inhibition Test	Activated sludge	30 min
C.I. Acid Various 226.1			
	Acute LC50 3,7 mg/l Fresh water 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute EC50 24,1 mg/l Fresh water 202 Daphnia sp. Acute Immobilisation Test and	Daphnia	48 h

	Reproduction Test		

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-(2-butoxyethoxy)ethanol	301C Ready Biodegradability - Modified MITI Test (I)	85 % - 28 d	-	Activated sludge
1-methoxy-2-propanol	301E Ready Biodegradability - Modified OECD Screening Test	96 % - 28 d	-	Activated sludge

BOD = Biochemical Oxygen Demand : Not available.

COD = Chemical Oxygen Demand : Not available.

Conclusion/Summary : Degradability and bioaccumulation tests for mixtures are generally not used as they are usually difficult to interpret, and such tests may be meaningful only for single substances.
Please refer to the data, where available and appropriate, for each individual substance in the mixture.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4-hydroxy-4-methylpentan-2-one	-0,14 - 1,03	-	low
2-(2-butoxyethoxy)ethanol	11	-	low
1-methoxy-2-propanol	< 11	-	low
C.I. Acid Various 226.1	0,581	-	low
(2-methoxymethylethoxy)propanol	0,004	-	low

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	3 	3 	3 	3 
14.4 Packing group	III	III	III	III
14.5. Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID : **Tunnel code** (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals
None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals
None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals
None of the components are listed.

Montreal Protocol
None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production
None of the components are listed.

Annex A - Elimination - Use
None of the components are listed.

Annex B - Restriction - Production
None of the components are listed.

Annex B - Restriction - Use
None of the components are listed.

Annex C - Unintentional - Production
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide
None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide
None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1
None of the components are listed.

POPs - Annex 1 - Production
None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed in DSL but all such components are listed in NDSL.
China	:	All components are listed or exempted.
Japan	:	All components are listed or exempted.
United States	:	**United States inventory (TSCA 8b):** All components are active or exempted.

15.2 Chemical safety assessment : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335 (Respiratory tract irritation)	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of printing : 13.06.2022
Date of issue/ Date of revision : 12.06.2022
Date of previous issue :
Version : 10.0

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Notice to reader

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Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition : Mixture
Code : LRC66
Product name : Shoe Dye
Colour : Various Shades Of Dye