



NIELSEN

SAFETY DATA SHEET BLACK DYE

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

1.1. Product identifier

Product name BLACK DYE

Internal identification L663

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

Identified uses Dye

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier NIELSEN CHEMICALS
 RAWDON ROAD
 MOIRA
 SWADLINCOTE
 DERBYSHIRE
 DE12 6DA
 TEL: +44 (0) 1283 222277
 FAX: +44 (0) 1283 225731
 info@nielsenchemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs). +44 (0) 1865 407333 (24 hrs). MEDICAL AND ENVIRONMENTAL EMERGENCIES ONLY.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

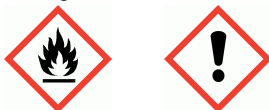
Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements
 H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P280 Wear protective gloves, eye and face protection.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains ETHYL ACETATE, PROPYL ACETATE

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

<p>Ethyl alcohol 60-100%</p> <p>CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-2119457610-43-xxxx</p>
<p>Classification</p> <p>Flam. Liq. 2 - H225 Eye Irrit. 2 - H319</p>
<p>PROPYL ACETATE 5-10%</p> <p>CAS number: 109-60-4 EC number: 203-686-1 REACH registration number: 01-2119484620-39-XXXX</p>
<p>Classification</p> <p>Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336</p>
<p>ETHYL ACETATE 5-10%</p> <p>CAS number: 141-78-6 EC number: 205-500-4</p>
<p>Classification</p> <p>Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336</p>
<p>PROPAN-1-OL 1-5%</p> <p>CAS number: 71-23-8 EC number: 200-746-9 REACH registration number: 01-2119486761-29-XXXX</p>
<p>Classification</p> <p>Flam. Liq. 2 - H225 Eye Dam. 1 - H318 STOT SE 3 - H336</p>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Rinse with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if symptoms are severe or persist.

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

Inhalation	May cause drowsiness or dizziness.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam, carbon dioxide or dry powder.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Highly flammable liquid and vapour.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO ₂).

5.3. Advice for firefighters

Protective actions during firefighting	Use water to keep fire exposed containers cool and disperse vapours.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. Use suitable respiratory protection if ventilation is inadequate. Take precautionary measures against static discharges. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up

Eliminate all sources of ignition. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Wear protective gloves, eye and face protection. Use only outdoors or in a well-ventilated area. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Avoid contact with contaminated tools and objects. Eliminate all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at temperatures between 4°C and 40°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 Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ethyl alcohol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

PROPYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 849 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 1060 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

PROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 500 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 625 mg/m³(Sk)

WEL = Workplace Exposure Limit

Ethyl alcohol (CAS: 64-17-5)

Ingredient comments

WEL = Workplace Exposure Limits

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DNEL	Workers - Inhalation; Short term : 1900 mg/m ³
	Workers - Dermal; Long term systemic effects: 343 mg/kg/day
	Workers - Inhalation; Long term : 950 mg/m ³
	Consumer - Inhalation; Short term : 950 mg/m ³
	Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
	Consumer - Inhalation; Long term : 114 mg/m ³
	Consumer - Oral; Long term systemic effects: 87 mg/kg/day
PNEC	- Fresh water; 0.96 mg/l
	- Marine water; 0.79 mg/l
	- Soil; 0.63 mg/kg
	- STP; 580 mg/l
	- Sediment (Freshwater); 3.6 mg/kg

ETHYL ACETATE (CAS: 141-78-6)

DNEL	Industry - Inhalation; : 1468 mg/m ³
	Consumer - Inhalation; : 734 mg/m ³
	Industry - Dermal; Long term : 63 mg/kg/day
	Industry - Inhalation; Long term : 734 mg/m ³
	Consumer - Dermal; Long term : 37 mg/kg/day
	Consumer - Inhalation; Long term : 367 mg/m ³
PNEC	- Fresh water; 0.26
	- Soil; 0.22 mg/kg
	- Sediment; 0.34 mg/kg
	- STP; 650 mg/l

8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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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. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application.

Hygiene measures

Wash hands thoroughly after handling.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Black.
Odour	Alcoholic.
pH	Not applicable.
Relative density	0.816 @ 20°C
Solubility(ies)	Slightly soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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10.4. Conditions to avoid

Conditions to avoid	Heat, sparks, flames.
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10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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10.6. Hazardous decomposition products

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Hazardous decomposition products Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation May cause drowsiness or dizziness.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact Causes serious eye irritation.

Toxicological information on ingredients.

Ethyl alcohol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

ATE oral (mg/kg) 10,470.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 17,100.0

Species Rabbit

ATE dermal (mg/kg) 17,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 124.7

Species Rat

ATE inhalation (vapours mg/l) 124.7

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1730 mg/kg, Oral,

Target organs Gastro-intestinal tract Liver

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

Ethyl alcohol

Acute aquatic toxicity

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Acute toxicity - fish	LC50, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe) LC ₅₀ , 96 hours: 11.000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 12.34 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , hours: mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

Special Provisions note

14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

14.2. UN proper shipping name

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)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3

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ICAO class/division 3

Transport labels**14.4. Packing group**

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33
(ADR/RID)

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended).**EU legislation** 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).
Commission Regulation (EU) No 453/2010 of 20 May 2010.
Commission Regulation (EU) No 2015/830 of 28 May 2015.**Guidance** Workplace Exposure Limits EH40.**15.2. Chemical safety assessment****SECTION 16: Other information**

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Abbreviations and acronyms used in the safety data sheet	<p>ATE: Acute Toxicity Estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>IATA: International Air Transport Association.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>UN: United Nations.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Revision comments	This is first issue.
Revision date	06/12/2017
Revision	1.0
SDS number	27496
Hazard statements in full	<p>H225 Highly flammable liquid and vapour.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.