SAFETY DATA SHEET

Friction Polish

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name Friction Polish

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

Identified uses Air drying paint/lacquer product for interior use.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Chestnut Products
PO BOX 260,
Stowmarket,
IP14 9BX
+44 (0) 1473 890118
+44 (0) 1473 206522
mailroom@chestnutproducts.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)1473 425878 (09:00-17:00 Mon- Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Acute Tox. 4 - H302 STOT SE 2 - H371 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) F; R11. Xn; R22, R48/20/21/22, R68/20/21/22. R52/53

2.2. Label elements

Pictogram

Signal word Danger

Friction Polish

Hazard statements	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H371 May cause damage to organs . H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapour/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.
Contains	Methanol, Pentanol isomers, Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene
Supplementary precautionary statements	P233 Keep container tightly closed. 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. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. 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 **50 - 100%**

CAS number: 64-17-5 EC number: 200-578-6

Substance with National workplace exposure limits.

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F; R11

Friction Polish

Methanol **5 - <10%**

CAS number: 67-56-1 EC number: 200-659-6

Classification
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT SE 1 - H370

Classification (67/548/EEC or 1999/45/EC)
F; R11. T; R23/24/25, R39/23/24/25

Pentanol isomers **2.5 - <5%**

CAS number: 30899-19-5 EC number: 250-378-8

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
STOT SE 3 - H335

Classification (67/548/EEC or 1999/45/EC)
Xn; R22. Xi; R37. R10, R66

4-Hydroxy-4-methylpentan-2-one **2.5 - <5%**

CAS number: 123-42-2 EC number: 204-626-7

Classification
Eye Irrit. 2 - H319

Classification (67/548/EEC or 1999/45/EC)
Xi; R36

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene **2.5 - <5%**

CAS number: 64742-82-1 EC number: 265-185-4

Classification
Flam. Liq. 3 - H226
STOT SE 3 - H336
STOT RE 1 - H372
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC)
T; R48/23/24/25. Xn; R65. N; R51/53. R10, R66, R67

Xylene **0.025 - <0.25%**

CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-2119488216-32-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315

Classification (67/548/EEC or 1999/45/EC)
Xn; R20/21. Xi; R38. R10

Friction Polish

Mesitylene	**0.025 - <0.25%**
CAS number: 108-67-8	EC number: 203-604-4

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Xi; R37. N; R51/53. R10

Ethylbenzene	**0.025 - <0.25%**
CAS number: 100-41-4	EC number: 202-849-4

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304	F; R11. Xn; R65, R20, R48/20/21/22

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Ingestion Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Keep affected person under observation. Get medical attention.

Skin contact Wash skin thoroughly with soap and water.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Possible risk of irreversible effects.

Inhalation A single exposure may cause the following adverse effects: Headache. Intoxication. Visual disturbances, including blurred vision. Nausea, vomiting. Narcotic effect.

Ingestion May cause discomfort if swallowed. May cause nausea, headache, dizziness and intoxication.

Skin contact This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion.

Eye contact May cause temporary eye irritation.

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

Friction Polish

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard. This product is toxic.

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

5.3. Advice for firefighters

Protective actions during firefighting Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Wear protective clothing as described in Section 8 of this safety data sheet. Promptly remove any clothing that becomes contaminated.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Do not empty into drains. For waste disposal, see Section 13. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Friction Polish

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Do not handle broken packages without protective equipment. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store locked up. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

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

Ethanol

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

Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³
Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³
Sk

4-Hydroxy-4-methylpentan-2-one

Long-term exposure limit (8-hour TWA): WEL 50 ppm 241 mg/m³
Short-term exposure limit (15-minute): WEL 75 ppm 362 mg/m³

Xylene

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³
Sk

Mesitylene

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m³

Ethylbenzene

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³
Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³
Sk

WEL = Workplace Exposure Limit

Friction Polish

Sk = Can be absorbed through the skin.

Ethanol (CAS: 64-17-5)

DNEL

Consumer - Oral; Long term systemic effects: 87 mg/kg/day
Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
Industry - Dermal; Long term systemic effects: 343 mg/kg/day
Consumer - Inhalation; Short term local effects: 950 mg/m³
Industry - Inhalation; Short term local effects: 1900 mg/m³
Consumer - Inhalation; Long term systemic effects: 114 mg/m³
Industry - Inhalation; Long term systemic effects: 950 mg/m³

PNEC

- Fresh water; 0.96 mg/l
- Sediment (Freshwater); 3.6 mg/kg
- Marine water; 0.79 mg/l
- Soil; 0.63 mg/kg

4-Hydroxy-4-methylpentan-2-one (CAS: 123-42-2)

DNEL

Workers - Inhalation; Short term local effects: 240 mg/m³
Workers - Inhalation; Long term local effects: 66.4 mg/m³
Workers - Inhalation; Long term systemic effects: 66.4 mg/m³
Workers - Dermal; Long term systemic effects: 9.4 mg/kg/day
Consumer - Inhalation; Short term local effects: 120 mg/m³
Consumer - Inhalation; Long term local effects: 11.8 mg/m³
Consumer - Inhalation; Long term systemic effects: 11.8 mg/m³
Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day

PNEC

- Fresh water; 2 mg/l
- Marine water; 0.2 mg/l
- Intermittent release; 1 mg/l
- STP; 82 mg/l
- Sediment (Freshwater); 9.06 mg/kg
- Sediment (Marinewater); 0.91 mg/kg
- Soil; 0.63 mg/kg

Xylene (CAS: 1330-20-7)

DNEL

Workers - Inhalation; Short term local effects: 289 mg/m³
Workers - Inhalation; Short term systemic effects: 289 mg/m³
Workers - Inhalation; Long term systemic effects: 77 mg/m³
Workers - Dermal; Long term systemic effects: 180 mg/kg/day
Consumer - Inhalation; Short term local effects: 174 mg/m³
Consumer - Inhalation; Short term systemic effects: 174 mg/m³
Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³
Consumer - Dermal; Long term systemic effects: 108 mg/kg/day
Consumer - Oral; Long term systemic effects: 1.6 mg/kg/day

Friction Polish

PNEC	- Fresh water; 0.327 mg/l - Marine water; 0.327 mg/l - Intermittent release; 0.327 mg/l - STP; 6.58 mg/l - Sediment (Freshwater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Soil; 2.31 mg/kg

Mesitylene (CAS: 108-67-8)

DNEL	Workers - Inhalation; Short term systemic effects: 100 mg/m³ Workers - Inhalation; Long term local effects: 100 mg/m³ Workers - Inhalation; Long term systemic effects: 100 mg/m³ Workers - Dermal; Long term systemic effects: 16171 mg/kg/day Consumer - Inhalation; Short term local effects: 19.4 mg/m³ Consumer - Inhalation; Short term systemic effects: 29.4 mg/m³ Consumer - Dermal; Long term systemic effects: 9512 mg/kg/day Consumer - Oral; Long term systemic effects: 15 mg/kg/day
PNEC	- Fresh water; 0.101 mg/l - Marine water; 0.101 mg/l - Intermittent release; 0.101 mg/l - STP; 2.02 mg/l - Sediment (Freshwater); 7.86 mg/kg - Sediment (Marinewater); 7.86 mg/kg - Soil; 1.34 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear 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. 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.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and Chemical Properties

Friction Polish

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	No data available.
Odour	No data available.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	<21°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	<110 kPa @ 25°C
Vapour density	Not available.
Relative density	>1
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

Friction Polish

10.5. Incompatible materials

Materials to avoid Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 1,031.57

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 3,367.0

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 33.67

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.

IARC carcinogenicity Contains a substance/a group of substances which may cause cancer. IARC Group 2B Possibly carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 2 - H371 May cause damage to organs .

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Friction Polish

Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Pain or irritation. Intoxication. Narcotic effect. Muscle weakness. Nausea, vomiting.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	This product is rapidly absorbed through the skin and may cause symptoms similar to those of ingestion.
Eye contact	May cause temporary eye irritation.
Route of entry	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.

Toxicological information on ingredients.

Methanol

Acute toxicity - oral

Notes (oral LD_{50})	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 LD_{50})	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 (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/irritation

Serious eye damage/irritation	Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Gene mutation: Negative. Based on available data the classification criteria are not met.

Friction Polish

Genotoxicity - in vivo	Chromosome aberration: Negative. 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.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	STOT SE 1 - H370
Target organs	Eyes Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Not relevant.

Pentanol isomers

Acute toxicity - oral

Notes (oral LD_{50})	Harmful if swallowed.
ATE oral (mg/kg)	500.0

Specific target organ toxicity - single exposure

STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.

4-Hydroxy-4-methylpentan-2-one

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,002.0
Species	Rat
Notes (oral LD_{50})	REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	3,002.0

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Friction Polish

Animal data Dose: 0.5 mL, 24 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/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. 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.

Carcinogenicity

Carcinogenicity NOAEC 1847 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 300 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development Maternal toxicity: - NOAEL: 4106 mg/m³, Inhalation, Rat REACH dossier information. 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 NOAEL 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) LD_{50} >5610 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Friction Polish

Skin corrosion/irritation

Animal data Repeated exposure may cause skin dryness or cracking.

Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Not sensitising. REACH dossier information. 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.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEC >20000 mg/m³, Inhalation, Rat P, F1 REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development Fetotoxicity:, Maternal toxicity: - NOAEL: 23900 mg/m³, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

Target organs Central nervous system

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

SECTION 12: Ecological Information

12.1. Toxicity

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

Ecological information on ingredients.

Methanol

Toxicity Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

Acute toxicity - fish LC_{50}, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
EC_{50}, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC_{50}, 96 hours: 18260 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC_{50}, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

Friction Polish

Acute toxicity - microorganisms	IC_{50}, 3 hours: >1000 mg/l, Activated sludge REACH dossier information.

Pentanol isomers

Toxicity	No negative effects on the aquatic environment are known.

4-Hydroxy-4-methylpentan-2-one

Toxicity	Aquatic toxicity is unlikely to occur.
Acute toxicity - fish	LC_{50}, 96 hours: >100 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >1000 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 3 hours: > 1000 mg/l, Activated sludge REACH dossier information.
Chronic toxicity - aquatic invertebrates	LC_{50}, 14 days: > 100 mg/l, Daphnia magna LC_{50}, 21 days: > 100 mg/l, Daphnia magna EC_{50}, 14 days: > 100 mg/l, Daphnia magna EC_{50}, 21 days: > 100 mg/l, Daphnia magna NOEC, 21 days: 100 mg/l, Daphnia magna REACH dossier information.

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Toxicity	Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
Acute toxicity - fish	LL_{50}, 96 hours: 8.2 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL_{50}, 48 hours: 4.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL_{50}, 72 hours: 3.1 mg/l, Selenastrum capricornutum
Chronic toxicity - fish early life stage	NOELR, 14 days: 2.6 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 2.6 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Ecological information on ingredients.

Methanol

Phototransformation	Air - DT_{50} : 17.2 days REACH dossier information.

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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.

Pentanol isomers

Persistence and degradability The degradability of the product is not known.

4-Hydroxy-4-methylpentan-2-one

Persistence and degradability The product is readily biodegradable.

Biodegradation Water - Degradation 98.51%: 28 days

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Persistence and degradability The product is readily biodegradable.

Biodegradation Water - Degradation 77%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

Methanol

Partition coefficient log Pow: -0.77 REACH dossier information.

Pentanol isomers

Bioaccumulative potential No data available on bioaccumulation.

4-Hydroxy-4-methylpentan-2-one

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -0.09 Estimated value.

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Bioaccumulative potential BCF: 10-2500, Estimated value.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems. Volatile liquid. The product contains organic solvents which will evaporate easily from all surfaces.

Ecological information on ingredients.

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Methanol

Mobility Mobile.

Pentanol isomers

Mobility No data available.

4-Hydroxy-4-methylpentan-2-one

Mobility The product is soluble in water.

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Mobility The product is insoluble in water.

Adsorption/desorption coefficient Soil - log Koc: 1.78-2.36 @ 25°C Estimated value.

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.

Ecological information on ingredients.

Methanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Pentanol isomers

Results of PBT and vPvB assessment No data available.

4-Hydroxy-4-methylpentan-2-one

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Naphtha (petroleum), hydrodesulfurized heavy <0.1% benzene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263
UN No. (ADN)	1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PAINT
Proper shipping name (IMDG)	PAINT
Proper shipping name (ICAO)	PAINT
Proper shipping name (ADN)	PAINT

14.3. Transport hazard class(es)

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	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

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.

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 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	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	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). Commission Regulation (EU) No 453/2010 of 20 May 2010. 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). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Acute Tox. 4 - H302: STOT RE 2 - H373: STOT SE 2 - H371: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method. Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations.

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Revision comments	Classification according to EC 1272/2008 (CLP).
Revision date	26/05/2015
Revision	7
Supersedes date	10/06/2014
SDS number	2877
Risk phrases in full	R10 Flammable. R11 Highly flammable. R20 Harmful by inhalation. R20/21 Harmful by inhalation and in contact with skin. R22 Harmful if swallowed. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R51/53 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. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H370 Causes damage to organs . H371 May cause damage to organs . H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure. H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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