

SAFETY DATA SHEET

LIQUID BRIGHT GOLD A44120

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

1.1. Product identifier

Product name LIQUID BRIGHT GOLD A44120

Product number A44120

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

Identified uses Decorative coating for glass and ceramic ware, suited for firing

1.3. Details of the supplier of the safety data sheet

Supplier Bailey Decal Ltd
Dunning Street
Tunstall
Stoke on Trent
ST6 5AP
United Kingdom
Phone : +44 1782 524400
Email : info@baileydecal.co.uk

1.4. Emergency telephone number

Emergency telephone +441531 822225,
Opening hours: 08:30 – 16:30 (Mon-Thu), 08:30 – 12:00 (Fri), closed bank and national
holidays.
Language of phone service: English

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or -
1999/45/EC)

Human health See section 11 for toxicological information

Environmental See section 12 for environmental information

Physicochemical See section 9 for physicochemical information

2.2. Label elements

LIQUID BRIGHT GOLD A44120**Pictogram****Signal word**

Warning

Hazard statements

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P262 Do not get in eyes, on skin, or on clothing.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

DIPENTENE, ROSIN, EUGENOL, PINENES, d-LIMONENE, CHROMIUM OCTOATE

Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.

2.3. Other hazards**Other hazards**

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

CYCLOHEXANOL			10-30%
CAS number: 108-93-0	EC number: 203-630-6	REACH registration number: 01-2119447488-26-XXXX	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302		Xn;R20/22 Xi;R37/38	
Acute Tox. 4 - H332			
Skin Irrit. 2 - H315			
STOT SE 3 - H335			

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Resin acids and Rosin acids, maleated, esters with glycerol			1-5%
CAS number: 68038-41-5			
Classification	Classification (67/548/EEC or 1999/45/EC)		
Eye Irrit. 2 - H319	-		
Skin Sens. 1 - H317			
BENZYL ACETATE			1-5%
CAS number: 140-11-4	EC number: 205-399-7	REACH registration number: 01-2119638272-42-XXXX	
Classification			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
STOT SE 3 - H335			
Aquatic Chronic 2 - H411			
DIPENTENE			1-5%
CAS number: 138-86-3	EC number: 205-341-0	REACH registration number: 01-2119538828-24-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification			
Flam. Liq. 3 - H226			
Skin Irrit. 2 - H315			
Skin Sens. 1 - H317			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
ROSIN			1-5%
CAS number: 8050-09-7	EC number: 232-475-7	REACH registration number: 01-2119480418-32-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Skin Sens. 1 - H317	R43		
CAMPHOR			1-5%
CAS number: 76-22-2	EC number: 200-945-0	REACH registration number: 01-2119966156-31-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Flam. Sol. 2 - H228	Xn;R68/22. Xi;R36/37/38. F;R11.		
Acute Tox. 4 - H302			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
STOT SE 3 - H335			

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PROPAN-2-OL			1-5%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R67	

EUGENOL			1-5%
CAS number: 97-53-0	EC number: 202-589-1	REACH registration number: 01-2119971802-33-XXXX	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		Classification (67/548/EEC or 1999/45/EC) Xn;R22. Xi;R36/38. R43.	

PINENES			1-5%
CAS number: 80-56-8	EC number: 201-291-9	REACH registration number: 01-2119519223-49-XXXX	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304			

BISMUTH TRIS(2-ETHYLHEXANOATE)			1-5%
CAS number: 67874-71-9			
Classification Skin Irrit. 2 - H315		Classification (67/548/EEC or 1999/45/EC) Xi;R38.	

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE			<1%
CAS number: 79-92-5	EC number: 201-234-8	REACH registration number: 01-2119446293-40-XXXX	
M factor (Acute) = 1		M factor (Chronic) = 1	
Classification Flam. Sol. 2 - H228 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		Classification (67/548/EEC or 1999/45/EC) Xi;R36. N;R50/53. R10.	

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d-LIMONENE			<1%
CAS number: 5989-27-5	EC number: 227-813-5	REACH registration number: 01-2119529223-47-XXXX	
M factor (Acute) = 1	M factor (Chronic) = 1		
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		Classification (67/548/EEC or 1999/45/EC) R10 R43 Xi;R38 N;R50/53	

CHROMIUM OCTOATE			<1%
CAS number: 20195-23-7	EC number: 243-579-7		
Classification Acute Tox. 4 - H302 Skin Sens. 1A - H317		Classification (67/548/EEC or 1999/45/EC) Xn;R22. R43.	

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	First aider needs to protect himself. Remove casualty from exposure. Remove contaminated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show safety data sheet if possible).
Inhalation	Move affected person to fresh air at once. Keep affected person warm and at rest. Seek medical advice immediately (show safety data sheet if possible).
Ingestion	Do not induce vomiting. Rinse the mouth with plenty of water (only if the person is conscious) and seek medical advice immediately (show safety data sheet if possible).
Skin contact	Remove affected person from the source of contamination and remove any contaminated clothing. Wash immediately with soap and water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. In case of skin irritation consult a physician (show safety data sheet if possible).
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse for at least 15 minutes. Consult an ophthalmologist immediately (show safety data sheet if possible).
Protection of first aiders	First aider: Pay attention to self-protection!

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.
Inhalation	Vapours may cause drowsiness and dizziness.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation. May cause irritation to the skin (dryness and itchiness).

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Eye contact May cause serious irritation to the eyes (burning sensation and redness, impairment of vision).

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

Notes for the doctor Treat symptomatically.

Specific treatments First aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic gases including carbon dioxide (CO₂), carbon monoxide (CO), oxides of sulfur and oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing (full protective suit).

Additional Information Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Use personal protective equipment, see section 8.

For emergency responders Remove persons to safety. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Beware of vapours accumulating to form explosive concentrations.

6.2. Environmental precautions

Environmental precautions Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment Prevent further leakage or spillage if safe to do so. Cap any drains in the area of the spill.

6.3.2. For cleaning up Contain spillage and absorb in vermiculite, dry sand or earth and place in container for disposal according to local regulations (see section 13). Keep in plastic, metal or glass closed containers for disposal.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures: Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Wear personal protective clothing: see section 8.

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Measures to prevent fire:	Keep away from heat, sparks and open flame.
Measures to prevent aerosol and dust generation:	Use respirator with an organic vapour cartridge or other appropriate filter if vapours or aerosol are released.
Measures to protect the environment:	Shafts and sewers must be protected from entry of this product: see Section 8.
Advice on general occupational hygiene	Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes. Provide eye shower and label its location conspicuously. A shower should be available in the intermediate vicinity. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink smoke or sniff. Remove contaminated saturated clothing immediately. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:	Store at room temperature. Do not exceed 40°C.
Packaging Materials:	Keep/store only in original container.
Requirements for storage rooms and vessels:	Provide for retaining containers, e.g. floor pan without outflow. This floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation in the storage area.
Further information on storage conditions:	Protect containers against damage.
Storage class	Flammable liquid storage.

7.3. Specific end use(s)

Usage description	The identified uses for this product are detailed in Subsection 1.2
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

CYCLOHEXANOL

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³

CAMPHOR

Long-term exposure limit (8-hour TWA): WEL 2 ppm 13 mg/m³

Short-term exposure limit (15-minute): WEL 3 ppm 19 mg/m³

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments	WEL = Workplace Exposure Limits SUP = Supplier's recommendation.
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CYCLOHEXANOL (CAS: 108-93-0)

DNEL

130 mg/m³ (long-term systematic) (inhalation)

8.2. Exposure controls

Protective equipment



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Substance/mixture related measures to prevent exposure during identified uses:	Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment (See Section 7). Wash hands before breaks and at the end of workday. Adequate ventilation should be provided.
Structural measures to prevent exposure:	No specific measures.
Organisational measures to prevent exposure:	Workers must wash hands before breaks and after the working day. Occupational exposure limits must be observed.
Technical measures to prevent exposure:	Adequate ventilation should be provided. A wash basin should be available. An emergency eye bath and shower should be available within the immediate vicinity.
Eye/face protection	Safety glasses with side shields should be worn. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Material: Nitrile rubber Minimum layer thickness: 0.11 mm
Other skin and body protection	Care should be taken to avoid contamination of clothing. Any saturated clothing should be removed immediately.
Hygiene measures	Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Provide adequate ventilation.
Thermal hazards	None expected.
Environmental exposure controls	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Substance/mixture related measures to prevent exposure:	No specific measures.
Instruction measures to prevent exposure:	No specific measures.
Organisational measures to prevent exposure:	No specific measures.
Technical measures to prevent exposure:	No specific measures.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red-brown.
Odour	Characteristic.
pH	No information required.
Relative density	1.0 - 1.2 g/cm ³
Solubility(ies)	Immiscible with water.

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Viscosity 0.65 - 0.75 Poise

9.2. Other information

Other information None.

Volatile organic compound This product contains a maximum VOC content of 57.42 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability No hazardous reaction if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid Avoid extremes of temperature and direct sunlight. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of sulfur, carbon and nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 3,223.25

Notes: May be harmful if swallowed., Information given based upon data of the components.

Acute toxicity - dermal

Notes: Not expected to be harmful in contact with skin., Information given based upon data of the components.

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 92.98

Notes: Not expected to be harmful if inhaled., Information given based upon data of the components.

Skin corrosion/irritation

(OECD Test Guideline 404) May cause skin irritation and/or dermatitis. Information given based upon data of the components.

Serious eye damage/irritation

(OECD Test Guideline 405) May cause serious eye damage/irritation. Information given based upon data of the components.

Respiratory sensitisation

(OECD Test Guideline 403) Not expected to cause allergy or asthma symptoms or breathing difficulties if inhaled. Information given is based upon data of the components.

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Skin sensitisation

(OECD Test Guideline 406) May cause an allergic skin reaction. Information given based upon data of the components.

Germ cell mutagenicity

(OECD Test Guideline 479) Not expected to cause genetic defects. Information given based upon data of the components.

Carcinogenicity

Result: Not expected to be carcinogenic. Information given based upon data of the components.

Reproductive toxicity

Reproductive toxicity Not suspected of damaging fertility and/or the unborn child. Information given based upon data of the components.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not expected to cause damage to organs through prolonged or repeated exposure. Information given based upon data of the components.

Aspiration hazard

Aspiration hazard May be harmful if swallowed and enters airways. Information given based upon data of the components.

Toxicological information on ingredients.

CYCLOHEXANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 1,400.0
mg/kg)

Species Rat

Notes (oral LD₅₀) (OECD Test Guideline 401)

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0
mg/kg)

Species Rabbit

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation 3.6
(LC₅₀ vapours mg/l)

Species Rat

Notes (inhalation LC₅₀) (OECD Test Guideline 403)

ATE inhalation (vapours 11.0
mg/l)

Skin corrosion/irritation

Animal data Rabbit, Result : irritating

LIQUID BRIGHT GOLD A44120**Specific target organ toxicity - repeated exposure****STOT - repeated exposure** Rabbit, Oral, LOAEL : 25 mg/kg bw/day**Target organs** Reproductive organs**Resin acids and Rosin acids, maleated, esters with glycerol****Acute toxicity - oral****Acute toxicity oral (LD₅₀
mg/kg)** 2,000.0**Species** Rat**Skin corrosion/irritation****Animal data** No specific test data are available.**Serious eye damage/irritation****Serious eye
damage/irritation** No specific test data are available.**BENZYL ACETATE****Acute toxicity - oral****Acute toxicity oral (LD₅₀
mg/kg)** 2,490.0**Species** Rat**ATE oral (mg/kg)** 2,490.0**Acute toxicity - dermal****Acute toxicity dermal (LD₅₀
mg/kg)** 5,000.0**Species** Rabbit**ATE dermal (mg/kg)** 5,000.0**Skin corrosion/irritation****Animal data** Rabbit, Result : irritating**Serious eye damage/irritation****Serious eye
damage/irritation** No specific test data are available.**Specific target organ toxicity - single exposure****STOT - single exposure** No specific test data are available.**Target organs** Respiratory system, lungs**DIPENTENE****Acute toxicity - oral****Acute toxicity oral (LD₅₀
mg/kg)** 5,300.0**Species** Rat

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ATE oral (mg/kg) 5,300.0

Skin corrosion/irritation

Animal data (Lemon, ext.) Rabbit, Result : irritating

Skin sensitisation

Skin sensitisation (Limonene) Mouse, Result : sensitising (OECD Test Guideline 429)

ROSIN**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 2,800.0

Species Rat

ATE oral (mg/kg) 2,800.0

Skin corrosion/irritation

(OECD Test Guideline 404) No specific test data are available

CAMPHOR**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 1,310.0

Species Mouse

Notes (oral LD₅₀) (OECD Test Guideline 420)

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

Notes (dermal LD₅₀) (OECD Test Guideline 402)

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 500.0

Species Rat

Notes (inhalation LC₅₀) (OECD Test Guideline 403)

ATE inhalation (dusts/mists mg/l) 500.0

Skin corrosion/irritation

Animal data No specific test data are available.

Serious eye damage/irritation

Serious eye damage/irritation No specific test data are available.

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Rat, Oral, NOEL : 25mg/kg bw/day (OECD Test Guideline 408) Rat, Dermal, NOAEL : 250mg/kg bw/day

Target organs Spleen Kidneys Brain Respiratory system, lungs

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,840.0

Species Rat

Notes (oral LD₅₀) (OECD Test Guideline 401)

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 13,900.0

Species Rat

ATE dermal (mg/kg) 13,900.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 72.6

Species Rat

ATE inhalation (vapours mg/l) 72.6

Serious eye damage/irritation

(OECD Test Guideline 405) Rabbit, Result : irritating

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Rat and Mouse, Inhalation, NOEC : 500 ppm (OECD Test Guideline 451)

Target organs Kidneys Skin Respiratory system, lungs Eyes Central nervous system Liver

EUGENOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

ATE oral (mg/kg) 2,000.0

PINENES

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,700.0

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Species	Rat
ATE oral (mg/kg)	3,700.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species	Rabbit
ATE dermal (mg/kg)	5,000.0
<u>Skin corrosion/irritation</u>	
Animal data	Human, Result : irritating
<u>Skin sensitisation</u>	
Skin sensitisation	Mouse, Result : sensitising (OECD Test Guideline 429)

BISMUTH TRIS(2-ETHYLHEXANOATE)

<u>Skin corrosion/irritation</u>	
Animal data	No specific test data are available.

d-LIMONENE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	4,400.0
Species	Rat
ATE oral (mg/kg)	4,400.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0
Species	Rabbit
<u>Skin corrosion/irritation</u>	
Animal data	(Lemon, ext.) Rabbit, Result : irritating
<u>Skin sensitisation</u>	
Skin sensitisation	Mouse, Result : sensitising (OECD Test Guideline 429)

CHROMIUM OCTOATE

<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	500.0
<u>Skin corrosion/irritation</u>	
Animal data	No specific test data are available.

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

LIQUID BRIGHT GOLD A44120**Ecological information on ingredients.****BENZYL ACETATE****Chronic aquatic toxicity**

Chronic toxicity No specific test data are available.

DIPENTENE**Acute aquatic toxicity**

LE(C)₅₀ $0.1 < L(E)C_{50} \leq 1$

M factor (Acute) 1

Acute toxicity - fish (Limonene) LC₅₀ : 0.702 mg/L, 96 hrs, pimephales promelas (OECD Test Guideline 203)

Acute toxicity - aquatic invertebrates (Limonene) EC₅₀ : 0.36 mg/L, 48 hrs, daphnia magna (OECD Test Guideline 202)

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity No specific test data are available.

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE**Acute aquatic toxicity**

LE(C)₅₀ $0.1 < L(E)C_{50} \leq 1$

M factor (Acute) 1

Acute toxicity - fish LC₅₀ : 0.72 mg/L, 96 hrs, brachydanio rerio (OECD Test Guideline 203)

Acute toxicity - aquatic invertebrates EC₅₀ : 0.72mg/L, 48 hrs, daphnia magna (OECD Test Guideline 202)

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity No specific test data are available.

d-LIMONENE**Acute aquatic toxicity**

LE(C)₅₀ $0.1 < L(E)C_{50} \leq 1$

M factor (Acute) 1

Acute toxicity - fish LC₅₀ : 0.702 mg/L, 96 hrs, pimephales promelas

Acute toxicity - aquatic invertebrates EC₅₀ : 0.36 mg/L, 48 hrs, daphnia magna (OECD Test Guideline 202)

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity No specific test data are available.

12.2. Persistence and degradability

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Persistence and degradability No test data available.

Ecological information on ingredients.

BENZYL ACETATE

Biodegradation Result : Readily biodegradable, activated sludge (OECD Test Guideline 301B)

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE

Biodegradation Aerobic - Exposure time 28 d
Result : 14% - Not readily biodegradable
(OECD Test Guideline 301C)

12.3. Bioaccumulative potential

Bioaccumulative potential No test data available.

Ecological information on ingredients.

BENZYL ACETATE

Partition coefficient Bioaccumulation not expected, log Kow : 1.49

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE

Bioaccumulative potential Cyprinus carpio - 56 d at 25°C - 0.015mg/L
Bioconcentration factor (BCF) : 432 - 922 (OECD Test Guideline 305C)

12.4. Mobility in soil

Mobility No test data available.

Ecological information on ingredients.

BENZYL ACETATE

Adsorption/desorption coefficient Log Koc = 2.4 (OECD Test Guideline 121) Expected to have a medium potential for soil mobility

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE

Adsorption/desorption coefficient Log Koc = 3.081

Henry's law constant 0.161 atm m³/mol @ 25°C (QSAR estimate)

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No information available

Ecological information on ingredients.

BENZYL ACETATE

Results of PBT and vPvB assessment Substance is not classified as PBT or vPvB.

2,2, DIMETHYL-3-METHYLENE BICYCLO (2,2,1) HEPTANE

LIQUID BRIGHT GOLD A44120

Results of PBT and vPvB assessment Substance is not classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects No test data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Seal opened containers and return to supplier.

Waste class 08 01 11 Waste paint or varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information

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 RELATED MATERIAL

Proper shipping name (IMDG) PAINT RELATED MATERIAL

Proper shipping name (ICAO) PAINT RELATED MATERIAL

Proper shipping name (ADN) PAINT RELATED MATERIAL

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 III

IMDG packing group III

ADN packing group III

LIQUID BRIGHT GOLD A44120

ICAO packing group III

14.5. Environmental hazards**14.6. Special precautions for user**

EmS F-E, S-E

ADR transport category 3

Emergency Action Code +3Y

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations	Highly Flammable Liquid Regulations 1972. Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
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).
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment**SECTION 16: Other information**

Revision date 31/05/2018

Revision 4

Supersedes date 31/05/2018

SDS number 21301

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H371 May cause damage to organs .
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.