

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: CLEAR ACRYLIC LACQUER

Article number: R242

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Tygris Industrial
Unit 31
Kyle Road Industrial Estate
Irvine
Ayshire
KA12 8LE
Tel +44 (0) 1294 311 066
Fax +44 (0) 1294 277 115
Email technical@tygrisindustrial.com

Further information obtainable from: Technical Department

1.4 Emergency telephone number: Tel +44 (0) 1294 311 066

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards
 Human health
 Environment

Flam. Aerosol 1 - H222
 EUH066; Eye Irrit. 2 - H319;
 STOT SE 3 - H336
 Not classified.

Classification (1999/45/EEC) Xi; R36. F+; R12. R66, R67.

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

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H222 Extremely flammable aerosol.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary Statements

P102 Keep out of reach of children.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P261 Avoid breathing vapour/spray.
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P264 Wash contaminated skin thoroughly after handling.
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P403+233 Store in a well-ventilated place. Keep container tightly closed.
 P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

3. Composition/information on ingredients

3.2. Mixtures

2-BUTOXYETHANOL	5-10%
Index No.	REACH Registration No.
CAS-No.: 111-76-2	EC No.: 203-905-0
Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	Xn;R20/21/22
Acute Tox. 4 - H312	Xi;R36/38
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
2-METHOXY-1-METHYLETHYL ACETATE	1-5%
Index No.	REACH Registration No.
CAS-No.: 108-65-6	EC No.: 203-603-9
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
ACETONE	30-60%
Index No.	REACH Registration No.
CAS-No.: 67-64-1	EC No.: 200-662-2
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 2 - H225	F;R11
EUH066	Xi;R36
Eye Irrit. 2 - H319	R66
STOT SE 3 - H336	R67
BUTANE	5-10%
Index No.	REACH Registration No.
CAS-No.: 106-97-8	EC No.: 203-448-7
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Gas 1 - H220	F+;R12
ISOBUTANE	1-5%
Index No.	REACH Registration No.
CAS-No.: 75-28-5	EC No.: 200-857-2
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Gas 1 - H220	F+;R12
PROPANE	10-30%
Index No.	REACH Registration No.
CAS-No.: 74-98-6	EC No.: 200-827-9
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Gas 1 - H220	F+;R12

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

4. First aid measures

4.1. Description of first aid measures

General information	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion	DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.
Skin contact	Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation	In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Ingestion	Due to the physical nature of this material it is unlikely that swallowing will occur.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Irritating and may cause redness and pain.

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

No specific first aid measures noted.

5. Firefighting measures

5.1 Extinguishing Media

Extinguishing media	Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	When heated, vapours/gases hazardous to health may be formed.
Unusual Fire & Explosion Hazards	Aerosol cans may explode in a fire.
Specific hazards	Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Special Fire Fighting Procedures	Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.
Protective equipment for fire-fighters	Wear full protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Wear protective gloves. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and aerosol spray. Avoid contact with skin and eyes.

6.2. Environmental precautions

Not relevant considering the small amounts used.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans

Must not be exposed to direct sunlight or temperatures above 50°C. Store in a cool and well-ventilated place. Store in accordance with the advice of insurers and/or relevant authority.

Storage Class

Store in a dry, well ventilated, moisture free area.

7.3. Specific end use(s)

8. Exposure controls/personal protection

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min	
2-BUTOXYETHANOL	WEL	25 ppm(Sk)		50 ppm(Sk)	
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm(Sk)	274 mg/m3(Sk)	100 ppm(Sk)	548 mg/m3(Sk)
ACETONE				500 ppm	1210 mg/m3
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3
ISOBUTANE	WEL	800 ppm		800 ppm	
PROPANE		Asphyxiating	Asphyxiating	Asphyxiating	Asphyxiating

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use chemical cartridge protection with appropriate cartridge.

Hand protection

Use protective gloves.

Eye protection

Use approved safety goggles or face shield.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Colourless.
Odour	Ketonic. Characteristic of a solvent based paint product
Solubility	Insoluble in water
Flammability Limit - Lower(%)	0.8
Flammability Limit - Upper(%)	9.0

9.2. Other information

Volatile Organic Compound (VOC) Maximum 839 g/litre

10. Stability and reactivity

10.1. Reactivity

The product may form explosive vapours/air mixtures even at normal room temperatures.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong alkalis. Strong oxidising substances.

10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information

11.1. Information on toxicological effects

Inhalation

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. Irritating to respiratory system.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. Gastrointestinal symptoms, including upset stomach.

Skin contact

Prolonged or repeated exposure may cause severe irritation. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause allergic contact eczema. May cause sensitisation by skin contact. Irritating to skin.

Eye contact

Irritating to eyes. May cause chemical eye burns.

Route of entry

Inhalation. Skin and/or eye contact. Ingestion.

12. Ecological information

Ecotoxicity

Under normal use conditions, this material is unlikely to accumulate in sufficient quantities to present any aquatic toxicity hazard.

12.1. Toxicity

Data set not currently available.

12.2. Persistence and degradability

The majority of the constituents are readily degradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

13. Disposal considerations

13.1. Waste treatment methods

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements. Industrial and institutional users should dispose of aerosols through a registered waste disposal company.

14. Transport information

14.1. UN number

UN No. (ADR/RID/ADN)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2. UN proper shipping name

Proper Shipping Name	AEROSOLS
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14.3. Transport hazard class(es)

ADR/RID/ADN Class	2
ADR/RID/ADN Class	Class 2: Gases
ADR Label No.	2.1
IMDG Class	2.1
ICAO Class/Division	2.1

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	Not Applicable
IMDG Packing group	Not Applicable
ICAO Packing group	Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant	No.
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14.6. Special precautions for user

EMS	F-D, S-U
Tunnel Restriction Code	(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory information

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

Uk Regulatory References	The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Control of Substances Hazardous to Health. The Aerosol Dispensers Regulations 2009
Approved Code Of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108). EU Legislation Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The Aerosol Dispensers Directive 1975/324 EEC

15.2. Chemical safety assessment

16. Other information

Risk Phrases In Full	R12 Extremely flammable. R10 Flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R11 Highly flammable R36/38 Irritating to eyes and skin. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard Statements In Full	H319 Causes serious eye irritation. H315 Causes skin irritation. H222 Extremely flammable aerosol. H220 Extremely flammable gas. H226 Flammable liquid and vapour. H332 Harmful if inhaled. H302 Harmful if swallowed. H312 Harmful in contact with skin. H225 Highly flammable liquid and vapour. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking.

DISCLAIMER

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.