Revision Date: 14/02/2018

Section 1: Identification of the Product and Company Identification

1.1. Product Identifier

Product Name: ClassicBond Bonding Adhesive Can

Product Code: 521010 / 521008 / 521009

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

Identified uses Adhesive

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Suppliers:

Flex-R Ltd.
Sandswood House
Hillbottom Road
Sands Industrial Estate
High Wycombe
Buckinghamshire
HP12 4HJ
Tel: 01494 448792 Fax: 01494 858433 Email: enq@classicbond.co.uk

1.4. Emergency telephone number

Emergency telephone 01494 448792 (NOT 24HRS 08.30 – 17.30 Monday-Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

Physicochemical The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

2.2. Label elements

Pictogram

Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
Contains	hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane, ETHYL ACETATE, HEXANE-norm

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

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% nhexane		**30-60%**
CAS number: −	EC number: 921-024-6	REACH registration number: 01-2119475514-35
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

ETHYL ACETATE		**10-30%**
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-0017
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

HEXANE-norm		**1-5%**
CAS number: 110-54-3	EC number: 203-777-6	REACH registration number: 01-2119480412-44
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

ZINC DIBENZYLDITHIOCARBAMATE		**<1%**
CAS number: 14726-36-4		REACH registration number: 01-2119543708-31-0001
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The Full Text for all 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.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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 headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
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	The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. The product is highly flammable.
Hazardous combustion products	Does not decompose when used and stored as recommended.

5.3. Advice for firefighters

Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.
Special protective equipment for firefighters	Wear chemical protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not 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 sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

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

Usage precautions	Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.
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 ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm
Short-term exposure limit (15-minute): WEL 400 ppm

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m^3
Short-term exposure limit (15-minute): WEL

ZBED (ZINC DIBENZYL DITHIOCARBAMATE)

Long-term exposure limit (8-hour TWA): 6 mg/m^3
WEL = Workplace Exposure Limit

Ingredient comments	WEL = Workplace Exposure Limits

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Consumer - Oral; Long term systemic effects: 699 mg/kg bw/day Workers - Oral; Long term systemic effects: 2035 mg/kg bw/day Consumer - Dermal; Long term systemic effects: 699 mg/kg bw/day Workers - Dermal; Long term systemic effects: 773 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 608 mg/m^3

ETHYL ACETATE (CAS: 141-78-6)

DNEL	Workers - Inhalation; Short term systemic effects: 1468 mg/m³ Workers - Inhalation; Short term local effects: 1468 mg/m³ Consumer - Inhalation; Short term systemic effects: 734 mg/m³ Consumer - Inhalation; Short term local effects: 374 mg/m³ Workers - Inhalation; Long term local effects: 734 mg/m³ Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 734 mg/m³ Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 367 mg/m³ Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day Consumer - Inhalation; Long term local effects: 367 mg/m³
PNEC	- Fresh water; 0.26 mg/l - Marine water; 0.026 mg/l - Intermittent release; 1.65 mg/l - Sediment (Freshwater); 1.25 mg/kg - Sediment (Marinewater); 0.125 mg/kg - Soil; 0.24 mg/kg - STP; 650 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	The following protection should be worn: 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. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands after handling. Eating, smoking and water fountains prohibited in immediate work area.
Respiratory protection	In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Cream.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Estimated value. 62-100°C @
Flash point	Estimated value. -35°C
Evaporation rate	Not determined.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Estimated value. : 0.6-13%
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.83 @ 20°C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Decomposition Temperature	Not available.
Viscosity	Kinematic viscosity > 20.5 mm^2/s.
Explosive properties	Not available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information	No information required.
Refractive index	Not available.
Particle size	Not available.
Molecular weight	Not available.
Volatility	Not available.

Saturation concentration	Not available.
Critical temperature	Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability	No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. Not relevant.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

Toxicological effects	No information available.

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,840.0
Species	Rat
Notes (oral LD_{50})	Not known. Data lacking.
ATE oral (mg/kg)	5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,920.0
Species	Rat
Notes (dermal LD_{50})	Data lacking.
ATE dermal (mg/kg)	2,920.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	25.2
Species	Rat
ATE inhalation (vapours mg/l)	25.2

Skin corrosion/irritation

Animal data	Data lacking.

Serious eye damage/irritation

Serious eye damage/irritation	Data lacking.

Aspiration hazard

Aspiration hazard	Kinematic viscosity > 20.5 mm^2/s.
Inhalation	May cause respiratory system irritation.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Irritating to skin.
Eye contact	May cause severe eye irritation.
Acute and chronic health hazards	Vapour from this product may be hazardous by inhalation.
Route of entry	Inhalation Skin absorption Ingestion. Skin and/or eye contact
Target organs	No specific target organs known.
Medical symptoms	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
Medical considerations	No information available.

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Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,100.0
Species	Mouse.
ATE oral (mg/kg)	4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	20,000.0
Species	Rabbit

ATE dermal (mg/kg)	20,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	30.0
Species	Rat
ATE inhalation (vapours mg/l)	30.0

HEXANE-norm

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	25,000.0
Species	Rat
ATE oral (mg/kg)	25,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} gases ppmV)	48,000.0
Species	Rat
ATE inhalation (gases ppm)	48,000.0

ZBED (ZINC DIBENZYL DITHIOCARBAMATE)

Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Causes mild skin irritation.
Eye contact	Irritating and may cause redness and pain.

SECTION 12: Ecological Information

Ecological information on ingredients.

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

Ecotoxicity	Dangerous for the environment.

12.1. Toxicity
Ecological information on ingredients.

hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

Acute toxicity - fish	LC_0, hours: >1-<10 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 3 mg/l, Daphnia magna

Acute toxicity - aquatic plants	LC_0, hours: >1-<10 mg/l, Fish

ETHYL ACETATE

Acute toxicity - fish	EC_{50}, 48 hours: 610 mg/l, Algae LC_{50}, 96 hours: 230 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 11.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 48 hours: 5600 mg/l, Fish

HEXANE-norm

Acute toxicity - fish	LC_{50}, EC_{50}, IC_{50}, : 10 mg/l, Algae
Acute toxicity - aquatic invertebrates	LC_{50}, EC_{50}, IC_{50}, : 10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC_{50}, EC_{50}, IC_{50}, : 10 mg/l, Fish

ZBED (ZINC DIBENZYL DITHIOCARBAMATE)

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)

Chronic aquatic toxicity

M factor (Chronic)	1

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient	Not available.

Ecological information on ingredients.

ETHYL ACETATE

Bioaccumulative potential	BCF: 30,
Partition coefficient	Not available.

12.4. Mobility in soil

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

ETHYL ACETATE

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

ZBED (ZINC DIBENZYL DITHIOCARBAMATE)

Mobility	Insoluble in water.

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.

ETHYL ACETATE

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

ZBED (ZINC DIBENZYL DITHIOCARBAMATE)

Other adverse effects	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

General information	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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

14.1. UN number

UN No. (ADR/RID)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133
UN No. (ADN)	1133

14.2. UN proper shipping name

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

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	1

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

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-E, S-D
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 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	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). Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. 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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Technical
Revision date	01/06/2017
Hazard statements in full	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. 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.
Store Between	Store Between 5°c - 25°c
Contains SVHC	NO