



KÖMMERLING

SAFETY DATA SHEET CILBOND 80ET

1. Identification

Product identifier

Product name CILBOND 80ET

Recommended use of the chemical and restrictions on use

Application Adhesive.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Kömmerring UK Ltd
217 Walton Summit Road
Bamber Bridge
Preston, Lancashire
PR5 8AQ United Kingdom
+44 (0)1772 322888
+44 (0)1772 315853
sds@cilbond.com

Emergency telephone number

Emergency telephone +44(0)7778 029192

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361d STOT SE 3 - H335, H336 STOT RE 2 - H373

Environmental hazards Not Classified

Human health See Section 11 for additional information on health hazards.

Environmental The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful effect on the environment.

Physicochemical The product is highly flammable. Vapors may form explosive mixtures with air. Vapors may be ignited by a spark, a hot surface or an ember.

Label elements

Pictogram



Signal word

Danger

CILBOND 80ET

Hazard statements

H225 Highly flammable liquid and vapor.
 H312+H332 Harmful in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 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.
 P260 Do not breathe vapor/spray.
 P261 Avoid breathing vapor/spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 If on skin: Wash with plenty of water.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 If exposed or concerned: Get medical advice/attention.
 P310 Immediately call a poison center/doctor.
 P312 Call a poison center/doctor if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.
 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.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

xylene, toluene, Mixed Xylenes, N,N'-(M-Phenylene)Dimaleimide, POLY DINITROSOBENZENE

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

CILBOND 80ET

xylene		30-60%
CAS number: 1330-20-7	REACH registration number: 01-2119488216-32-XXXX	
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2A - H319		
STOT SE 3 - H335		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
toluene		10-30%
CAS number: 108-88-3	REACH registration number: 01-2119471310-51-XXXX	
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
Repr. 2 - H361d		
STOT SE 3 - H336		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
Mixed Xylenes		5-10%
CAS number: 1330-20-7	REACH registration number: 01-2119539452-40-XXXX	
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2A - H319		
STOT SE 3 - H335		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		

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N,N'-(M-Phenylene)Dimaleimide		1-5%
CAS number: 3006-93-7		
Classification		
Acute Tox. 4 - H302		
Acute Tox. 3 - H311		
Acute Tox. 2 - H330		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Carbon Black		1-5%
CAS number: 1333-86-4		REACH registration number: 01-2119384822-32-XXXX
Classification		
Not Classified		
POLY DINITROSOBENZENE		1-5%
CAS number: 9003-34-3		
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
ethylbenzene		<1%
CAS number: 100-41-4		
Classification		
Flam. Liq. 2 - H225		
Acute Tox. 4 - H332		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
Aquatic Chronic 3 - H412		
Talc		<1%
CAS number: 14807-96-6		
Classification		
Not Classified		

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1-chloro-2,3-epoxypropane		<1%
CAS number: 106-89-8	REACH registration number: 01-2119457436-33-XXXX	
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 3 - H301		
Acute Tox. 3 - H331		
Skin Sens. 1 - H317		
Carc. 1B - H350		
Skin Corr. 1B - H314		
Acute Tox. 3 - H311		
Eye Dam. 1 - H318		
1,1,2-trichloroethane		<1%
CAS number: 79-00-5		
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Carc. 2 - H351		

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Get medical attention. Keep affected person away from heat, sparks and flames.
Skin Contact	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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	Vapors may cause headache, fatigue, dizziness and nausea. Vapours may cause drowsiness and dizziness.

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Ingestion	May cause stomach pain or vomiting.
Skin contact	Prolonged or repeated exposure may cause severe irritation.
Eye contact	Causes eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media Water.

Special hazards arising from the substance or mixture

Flammability Class No Uniform Fire Code noted.

Specific hazards Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapors may form explosive mixtures with air. Vapors may be ignited by a spark, a hot surface or an ember.

Hazardous combustion products Toxic gases or vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. 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. Contain and collect extinguishing water. 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. Wear chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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. Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Provide adequate ventilation. Cover large spillages with alcohol-resistant foam. Contain spillage with sand, earth or other suitable non-combustible material. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

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

7. Handling and storage

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Precautions for safe handling

Usage precautions	Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion-proof electrical, ventilating and lighting equipment. Avoid spilling. Avoid breathing vapours. In case of insufficient ventilation, wear suitable respiratory equipment.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Provide eyewash station. Provide shower facilities near the workplace. Wash promptly with soap and water if skin becomes contaminated.

Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a well-ventilated place. Stir Thoroughly before and during use. Refer to SDS.
Storage class	Flammable liquid storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

xylene

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³
 Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 434 mg/m³
 Short-term exposure limit (15-minute): ACGIH 150 ppm 651 mg/m³
 A4

toluene

Long-term exposure limit (8-hour TWA): OSHA 200 ppm
 Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 75 mg/m³
 A4
 Ceiling exposure limit: OSHA 300 ppm

Mixed Xylenes

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³
 Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 434 mg/m³
 Short-term exposure limit (15-minute): ACGIH 150 ppm 651 mg/m³
 A4

Carbon Black

Long-term exposure limit (8-hour TWA): OSHA 3.5 mg/m³
 Long-term exposure limit (8-hour TWA): ACGIH 3 mg/m³ inhalable fraction
 A3

ethylbenzene

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 87 mg/m³
 A3
 Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³

Talc

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction
 A4
 Long-term exposure limit (8-hour TWA): ACGIH 0.1 f/cc containing asbestos fibers
 A1

1-chloro-2,3-epoxypropane

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Long-term exposure limit (8-hour TWA): ACGIH 0.5 ppm 1.9 mg/m³
A3, Sk

Long-term exposure limit (8-hour TWA): OSHA 5 ppm 19 mg/m³
Sk

1,1,2-trichloroethane

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 45 mg/m³
Sk

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 55 mg/m³
A3, Sk

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Sk = Danger of cutaneous absorption.

A1 = Confirmed Human Carcinogen.

toluene (CAS: 108-88-3)

**Immediate danger to life
and health** 500 ppm

Carbon Black (CAS: 1333-86-4)

**Immediate danger to life
and health** 1750 mg/m³

Amorphous Silica (CAS: 7631-86-9)

**Immediate danger to life
and health** 3000 mg/m³

ethylbenzene (CAS: 100-41-4)

**Immediate danger to life
and health** 800 ppm

Talc (CAS: 14807-96-6)

**Immediate danger to life
and health** 3000 mg/m³ 3000 mg/m³

1-chloro-2,3-epoxypropane (CAS: 106-89-8)

**Immediate danger to life
and health** 75 ppm

1,1,2-trichloroethane (CAS: 79-00-5)

**Immediate danger to life
and health** 100 ppm

Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure that the direction of airflow is clearly away from the worker. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapors. Ensure operatives are trained to minimize exposure.

Eye/face protection

Wear chemical splash goggles.

Hand protection

It is recommended that gloves are made of the following material: Rubber (natural, latex). Polyvinyl chloride (PVC). Neoprene. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

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

Hygiene measures

Do not smoke in work area. Contaminated clothing should be placed in a closed container for disposal or decontamination. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. When spraying, wear a suitable supplied-air respirator. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Check that the respirator fits tightly and the filter is changed regularly.

Environmental exposure controls

Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. 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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Volatile liquid.
Color	Black.
Odor	Characteristic. Aromatic. Hydrocarbons.
Melting point	-50°C
Initial boiling point and range	112°C @ 760 mm Hg
Flash point	15-20°C CC (Closed cup).
Evaporation rate	1 (butyl acetate = 1)
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.0 % Upper flammable/explosive limit: 7.3 %
Vapour pressure	<20 mm Hg @ 25°C
Vapour density	(Air=1) >1
Relative density	0.92-0.98 @ 25°C
Solubility(ies)	Miscible with the following materials: Organic solvents.

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Auto-ignition temperature	>250°C
Other information	None.
Refractive index	Not known.
Volatile organic compound	No information available.

10. Stability and reactivity

Reactivity	The reactivity data for this product will be typical of those for the following class of materials: Hydrocarbons. Flammable/combustible materials.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	None known.
Conditions to avoid	Avoid heat.
Materials to avoid	Avoid contact with strong oxidizing agents. Avoid contact with strong reducing agents.
Hazardous decomposition products	Heating may generate flammable vapors. Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).

11. Toxicological information

Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 11,588.29

Acute toxicity - dermal

ATE dermal (mg/kg) 1,565.52

Acute toxicity - inhalation

ATE inhalation (gases ppm) 8,580.32

ATE inhalation (vapours mg/l) 389.79

ATE inhalation (dusts/mists mg/l) 1.34

Specific target organ toxicity - single exposure

Target organs Respiratory system, lungs Mucous membranes

Specific target organ toxicity - repeated exposure

Target organs Respiratory system, lungs Mucous membranes

Aspiration hazard

Aspiration hazard May be harmful if swallowed and enters airways.

General information

Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapor concentrations.

Inhalation

Harmful by inhalation. Gas or vapor in high concentrations may irritate the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea.

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Ingestion	May cause internal injury. Nausea, vomiting.
Skin Contact	Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. Eczema/contact dermatitis.
Eye contact	Irritation of eyes and mucous membranes.
Acute and chronic health hazards	This product may cause skin and eye irritation. Prolonged inhalation of high concentrations may damage respiratory system.
Route of entry	Inhalation Ingestion Skin absorption Skin and/or eye contact
Target Organs	Respiratory system, lungs Mucous membranes
Medical Symptoms	Symptoms following overexposure to vapor may include the following: Coughing, chest tightness, feeling of chest pressure. Difficulty in breathing. Dizziness. Symptoms following overexposure may include the following: Dry skin.

12. Ecological Information

Ecotoxicity	The product contains a substance which is harmful to aquatic organisms.
<u>Persistence and degradability</u>	
Persistence and degradability	No data available.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	No data available on bioaccumulation.
<u>Mobility in soil</u>	
Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
<u>Results of PBT and vPvB assessment</u>	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
<u>Other adverse effects</u>	
Other adverse effects	Not known.

13. Disposal considerations

<u>Waste treatment methods</u>	
General information	The generation of waste should be minimized or avoided wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of contents/container in accordance with local regulations.

14. Transport information

General	Wear protective clothing as described in Section 8 of this safety data sheet.
Road transport notes	Avoid releasing into the environment.
Sea transport notes	Do not release into the environment.
<u>UN Number</u>	
UN No. (DOT)	1133
UN No. (IMDG)	1133

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UN No. (ICAO) 1133

UN proper shipping name

Proper shipping name (DOT) ADHESIVES

Proper shipping name (IMDG) ADHESIVES

Proper shipping name (ICAO) ADHESIVES

Transport hazard class(es)

IMDG Class 3

ICAO class/division 3

Transport labels**Packing group**

DOT pack group II

IMDG packing group II

ICAO packing group II

Environmental hazards**Environmentally Hazardous Substance**

No.

Special precautions for user

EmS F-E, S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information**16. Other information**

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision. Revised classification. Change of Company Name

Issued by HS&E Manager.

Revision date 9/30/2015

Revision 1

Supersedes date 7/31/2015

SDS No. 4622

SDS status Approved.

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Hazard statements in full

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
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.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

STIR

STIR BEFORE USE

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.