



SAFETY DATA SHEET

CILBOND 48

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name CILBOND 48

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

Supplier Chemical Innovations Ltd
217 Walton Summit Road
Bamber Bridge
Preston, Lancashire
PR5 8AQ United Kingdom
T +44 (0)1772 322888
F +44 (0)1772 315853
Email: sds@cilbond.com

1.4. Emergency telephone number

+44(0)7778 029192

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	EUH066; Eye Irrit. 2 - H319; Repr. 2 - H361d; STOT SE 3 - H336
Environment	Not classified.

Classification (1999/45/EEC)

Repr. Cat. 3; R63. Xi; R36. F; R11. R66, R67.

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

Human health

See section 11 for additional information on health hazards.

Environment

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.

Physical and Chemical Hazards

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

2.2. Label elements

Contains TOLUENE

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

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Signal Word	Danger	
Hazard Statements	H225 H319 H336 H361d	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child.
Precautionary Statements	P210 P271 P280 P281 P305+351+338 P313 P501	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Dispose of contents/container in accordance with local regulations.
Supplementary Precautionary Statements	P201 P202 P233 P240 P241 P242 P243 P261 P264 P370+378 P303+361+353 P304+340 P308+313 P312 P337 P403+233 P403+235 P405	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapour/spray. Wash contaminated skin thoroughly after handling. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Supplemental label information	EUH066	Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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BUTANONE		60-70%
CAS-No.: 78-93-3	EC No.: 201-159-0	Registration Number: 01-2119457290-43
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
TOLUENE		5-10%
CAS-No.: 108-88-3	EC No.: 203-625-9	Registration Number: 01-2119471310-51
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67	
XYLENE		5-10%
CAS-No.: 1330-20-7	EC No.: 215-535-7	Registration Number: 01-2119488216-32
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38	

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

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.
For breathing difficulties oxygen may be necessary.
If breathing stops, provide artificial respiration.
Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING!
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!
Remove victim immediately from source of exposure.
Immediately rinse mouth and provide fresh air.
Get medical attention immediately!
NOTE! Keep affected person away from heat, sparks and flames!

Skin contact

Remove affected person from source of contamination.
Wash the skin immediately with soap and water.

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Get medical attention if irritation persists after washing.

Eye contact

Remove victim immediately from source of exposure.

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.

Contact physician if irritation persists.

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

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

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye contact

Irritation of eyes and mucous membranes.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using:

Foam.

Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media

Do not use water as an extinguisher.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE!

Vapours are heavier than air and may spread near ground to sources of ignition.

Specific hazards

Vapours may be ignited by a spark, a hot surface or an ember.

Vapours may form explosive air mixtures even at room temperature.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk.

Containers close to fire should be removed or cooled with water.

Cool containers exposed to flames with water until well after the fire is out.

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

See section 11 for more detailed information on health effects and symptoms.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion proof electric equipment. 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

Store in tightly closed original container in a dry, cool and well-ventilated place. Stir thoroughly before and during use. Refer to SDS

Storage Class

Flammable liquid storage.

7.3. 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTANONE	WEL	200 ppm(Sk)	600 mg/m3(Sk)	300 ppm(Sk)	899 mg/m3(Sk)	
TOLUENE	WEL	50 ppm(Sk)	191 mg/m3(Sk)	150 ppm(Sk)	574 mg/m3(Sk)	
XYLENE	WEL	50 ppm(Sk)	220 mg/m3(Sk)	100 ppm(Sk)	441 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

Ingredient Comments

Due to the hazardous nature of ingredients, exposure should be minimal.

TOLUENE (CAS: 108-88-3)

Ingredient Comments

Due to the hazardous nature of ingredients, exposure should be minimal.

BUTANONE (CAS: 78-93-3)

Ingredient Comments

Due to the hazardous nature of ingredients, exposure should be minimal.

8.2. Exposure controls

Protective equipment



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Respiratory equipment

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

Hand protection

Use protective gloves made of:
Rubber, neoprene or PVC.

Eye protection

Wear approved safety goggles.

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.

Personal protection

Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower.

Skin protection

Wear apron or protective clothing in case of splashes.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Volatile Liquid
Colour	Clear
Odour	Characteristic. of solvents
Solubility	Miscible with: Organic solvents.
Initial boiling point and boiling range (°C)	78@ 760 mm Hg
Melting point (°C)	<-50
Relative density	0.85-0.90@ 25°C
Vapour density (air=1)	>1
Vapour pressure	100 mm Hg @25°C
Evaporation rate	0.6 Ref BuAc=1
Flash point (°C)	-5-0 Method CC (Closed cup).
Auto Ignition Temperature (°C)	>250

9.2. Other information

Not available.

SECTION 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

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Not determined.

10.4. Conditions to avoid

Avoid heat.

Avoid contact with oxidisers or reducing agents.

10.5. Incompatible materials

10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

This material is harmful

Inhalation

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapour from this chemical can be hazardous when inhaled.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact

Irritation of eyes and mucous membranes.

Health Warnings

Product has a defatting effect on skin.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Target Organs

Respiratory system, lungs Mucous membranes

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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 or damaging effect on the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not determined.

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SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General Full protective clothing should be worn when handling this product.

Road Transport Notes Avoid releasing to the environment.

Sea Transport Notes Do not release into the environment.

14.1. UN number

UN No. (ADR/RID/ADN) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

14.2. UN proper shipping name

Proper Shipping Name ADHESIVE

14.3. Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

IMDG Class 3

ICAO Class/Division 3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group II

IMDG Packing group II

ICAO Packing group II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS F-E, S-D

Emergency Action Code 3 [Y] E

Hazard No. (ADR) 33

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Tunnel Restriction Code (D/E)

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Petroleum (Consolidation) Act, as amended 1984 SI 1244.

Highly Flammable Liquid Regulations 1972.

Environmental Listing

No listing noted.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Control of Substances Hazardous to Health.

Export of Dangerous Chemicals Regulations.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations.

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

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substance Directive 67/548/EEC.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

15.3 International Inventories

EU - EINECS/ELINCS

None of the ingredients are listed.

SECTION 16: OTHER INFORMATION

Information Sources

N/A

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 23/10/2013**Revision** 3**Supersedes date** 04/07/2013**SDS No.** 10658

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Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36	Irritating to eyes.
R38	Irritating to skin.
R63	Possible risk of harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.

stir

STIR BEFORE USE.

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.