





SAFETY DATA SHEET CILBOND 48

1. Identification

Product identifier

Product name CILBOND 48

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 Kömmerling 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 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - 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

Hazard statements H225 Highly flammable liquid and vapor.

H315 Causes skin 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.

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.

P308+P313 If exposed or concerned: Get medical advice/attention.

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.
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

butanone, toluene, xylene

Other hazards

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

3. Composition/information on ingredients

Mixtures

butanone 60-100%

CAS number: 78-93-3

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

| toluene | 5-10% |
|----------------------|-------|
| CAS number: 108-88-3 | |
| Classification | |
| Flam. Liq. 2 - H225 | |
| Skin Irrit. 2 - H315 | |
| Repr. 2 - H361d | |
| STOT SE 3 - H336 | |
| STOT RE 2 - H373 | |
| Asp. Tox. 1 - H304 | |

xylene
CAS number: 1330-20-7

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

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 on | ce. Get medical attention if an | v 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 doctorTreat symptomatically.

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 (NOx).

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

 $We ar positive-pressure \ self-contained \ breathing \ apparatus \ (SCBA) \ and \ appropriate \ protective$

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

butanone

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³ Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 200 ppm 590 mg/m³

toluene

Long-term exposure limit (8-hour TWA): OSHA 200 ppm

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 75 mg/m³

Ceiling exposure limit: OSHA 300 ppm

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

ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

butanone (CAS: 78-93-3)

Immediate danger to life

and health

3000 ppm

toluene (CAS: 108-88-3)

Immediate danger to life 500 ppm

and health

Exposure controls

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 OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation.

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 Clear.

Odor Characteristic. Solvent.

Melting point <-50°C

Initial boiling point and range 78°C @ 760 mm Hg

Flash point -5 to 0°C CC (Closed cup).

Evaporation rate 0.6 (butyl acetate = 1)

Vapour pressure 100 mm Hg @ 25°C

Vapour density (Air=1) >1.0

Relative density 0.85-0.9 @ 25°C

Solubility(ies) Miscible with the following materials: Organic solvents.

Auto-ignition temperature >250°C

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Other information None.

Refractive index Not known.

Volatile organic compound No information available.

10. Stability and reactivity

ReactivityThe 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 (CO2). Nitrous gases (NOx).

11. Toxicological information

Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - dermal

ATE dermal (mg/kg) 15,492.96

Acute toxicity - inhalation

ATE inhalation (gases ppm) 63,380.28

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.

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.

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Route of entry Inhalation Ingestion Skin absorption Skin and/or eye contact

Target Organs Respiratory system, lungs Mucous membranes

Medical Symptoms Symptoms 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 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.

Toxicity

Toxicity Not known.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

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

surfaces.

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

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.

Sea transport notes Do not release into the environment.

UN Number

UN No. (DOT) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

UN proper shipping name

Proper shipping name (DOT) ADHESIVES

Proper shipping name ADHESIVES

(IMDG)

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 Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

Inventories

US - TSCA

All the ingredients are listed or exempt.

16. Other information

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

Company Logo updated Section 15 Updated US/Canada

Issued by HS&E Manager.

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Revision 2

Supersedes date 10/7/2015

SDS No. 4649

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

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.

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.

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.