



KÖMMERLING

SAFETY DATA SHEET CILBOND 33A

1. Identification

Product identifier

Product name CILBOND 33A

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
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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 Eye Dam. 1 - H318 STOT SE 3 - H336

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

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Hazard statements	H225 Highly flammable liquid and vapor. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.
Precautionary statements	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. P261 Avoid breathing vapor/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. 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. P310 Immediately call a poison center/doctor. P312 Call a poison center/doctor if you feel unwell. 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, Glycidoxypropyl Trimethoxysilane
Other hazards	
	This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

butanone	30-60%
CAS number: 78-93-3	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
Glycidoxypropyl Trimethoxysilane	5-10%
CAS number: 2530-83-8	
Classification	
Eye Dam. 1 - H318	

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.

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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.
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 (CO ₂). Nitrous gases (NO _x).
<u>Advice for firefighters</u>	
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.

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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

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

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

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butanone (CAS: 78-93-3)

Immediate danger to life and health 3000 ppm

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	Colorless to pale yellow.
Odor	Characteristic. Solvent.
Melting point	<-50°C
Initial boiling point and range	>78°C @ 760 mm Hg
Flash point	-8°C CC (Closed cup).
Evaporation rate	0.6 (butyl acetate = 1)

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Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.8 Upper flammable/explosive limit: 11.5
Vapour pressure	<25 mm Hg @ 25°C
Vapour density	(Air=1) >1
Relative density	0.94-0.99 @ 25°C
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.

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.

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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 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.
<u>Toxicity</u>	
Toxicity	Not known.
<u>Persistence and degradability</u>	
Persistence and degradability	The degradability of the product is not known.
<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.
Change of Company Name

Issued by HS&E Manager.

Revision date 10/7/2015

Revision 1

Supersedes date 9/9/2015

SDS No. 4680

SDS status Approved.

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Hazard statements in full	H225 Highly flammable liquid and vapor. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
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.