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Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/01/2016

1 Identification

- Product identifier
- Trade name: CILBOND 10 E
- Article number: R025201-00
- Application of the substance / the mixture Adhesives
- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Kommerling 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 (calls from USA: Please dial 01149 instead of +49)

- Information department:

Abteilung: C-U Qualitäts- und Umweltmanagementcenter (department: C-U Quality- and Environmentalmanagementcenter) Tel.: +49 (0)6331/56-2553; Fax.: +49 (0)6331/56-1091 e-Mail: Productsafety@Koe-Chemie.de (calls from USA: Please dial 01149 instead of +49)

Emergency telephone number: In case of poisoning: GBK-EMTEL International Tel.(24h): +49(0)6132/84463 (all languages)

In case of transport accidents: Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK) (calls from USA: Please dial 01149 instead of +49)

- Emergency-Phone from inside USA/Canada (toll free): 1 800 535 5053 (Infotrac - Contract ID: 90373 / GBK)

2 Hazard(s) identification

- Classification of	the substance or mixture
Flam. Liq. 2	H225 Highly flammable liquid and vapor.
Acute Tox. 4	H332 Harmful if inhaled.
Eye Irrit. 2A	H319 Causes serious eye irritation.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT SE 3	H335 May cause respiratory irritation.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 2	H401 Toxic to aquatic life.
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Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.	(Contd. of page 1)
- Label elements - GHS label elements	
The product is classified and labeled according to the Globally Harmonized System	(GHS).
- Hazard pictograms	
$\land \land \land \land \land$	
GHS02 GHS07 GHS08 GHS09	
- Signal word Danger	
- Hazard-determining components of labeling:	
4-methylpentan-2-one	
toluene methenamine	
maleic anhydride	
- Hazard statements	
H225 Highly flammable liquid and vapor.	
H332 Harmful if inhaled.	
H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H317 May cause an allergic skin reaction.	
H361 Suspected of damaging fertility or the unborn child.	
H335 May cause respiratory irritation.	
H373 May cause damage to organs through prolonged or repeated exposure. H401 Toxic to aquatic life.	
H411 Toxic to aquatic life with long lasting effects.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
Keep container tightly closed. Take precautionary measures against static discharge.	
Use only outdoors or in a well-ventilated area.	
Avoid release to the environment.	
Wear protective gloves / eye protection.	
Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Do not breathe mist/vapours/spray.	
Avoid contact during pregnancy/while nursing.	
Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with w	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	es, if present and
easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Wash contaminated clothing before reuse.	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
Do NOT induce vomiting.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep container tightly closed.	al regulations
Dispose of contents/container in accordance with local/regional/national/international- - Other hazards	a regulations.
In the event of a large-scale use of the product, ignition sources in the immediate	e proximity and in
low-lying areas, such as welding equipment, bells, heating elements, refrigerators, s	storage heaters
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(Contd. of page 2) etc. should be switched off! Erect warning signs warning of the hazardous risk of explosive atmosphere!

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of several substances

- Dangerous components:

Dangerou	s components.	
108-10-1	4-methylpentan-2-one	50-75%
108-88-3	toluene	< 10%
1314-13-2	zinc oxide	< 5.0%
100-97-0	methenamine	< 0.5%
108-31-6	maleic anhydride	< 0.5%
- SVHC Doesn't contain SVHC-substances		

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

- After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- **Suitable extinguishing agents:** Water spray Alcohol resistant foam Fire-extinguishing powder Carbon dioxide
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation Keep away from ignition sources Use respiratory protective device against the effects of fumes/dust/aerosol.

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 Methods and material for Reference to other section See Section 7 for information 	tion on safe handling. tion on personal protection equipment.
7 Handling and storag	je
 Information about prote Keep ignition sources awa Protect against electrosta 	
- Conditions for safe stor	age, including any incompatibilities
 Storage: Requirements to be met Information about stora Further information about stora Further information about stora Further information about stora Frotect from frost. Keep receptacle tightly see Protect from heat and direct store receptacle in a well Store in dry conditions. Storage class (accordin) 	by storerooms and receptacles: Prevent any seepage into the ground. ge in one common storage facility: Store away from foodstuffs. ut storage conditions: aled. ect sunlight.
8 Exposure controls/p - Additional information a	Dersonal protection bout design of technical systems: No further data; see item 7.
- Control parameters - Components with limit The following constituent recommended exposure I At this time, the other con	values that require monitoring at the workplace: s are the only constituents of the product which have a PEL, TLV or other imit. stituents have no known exposure limits.
108-10-1 4-methylpenta	
PEL (USA) REL (USA)	Long-term value: 410 mg/m ³ , 100 ppm Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm Short term value: 207 mg/m ³ , 75 ppm
TLV (USA)	Short-term value: 307 mg/m³, 75 ppm Long-term value: 82 mg/m³, 20 ppm BEI
IOELV (European Union)	Short-term value: 208 mg/m³, 50 ppm Long-term value: 83 mg/m³, 20 ppm
108-88-3 toluene	
PEL (USA) REL (USA)	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift Short-term value: 560 mg/m ³ , 150 ppm
TLV (USA)	Long-term value: 375 mg/m ³ , 100 ppm Long-term value: 75 mg/m ³ , 20 ppm BEI

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	naleic anhydri	ide (Contd. of pa
PEL (USA		Long-term value: 1 mg/m³, 0.25 ppm
REL (USA)		Long-term value: 1 mg/m ³ , 0.25 ppm
TLV (USA		Long-term value: 0.01* mg/m ³ , 0.0025* ppm
		DSEN, RSEN;*inhalable fraction + vapor
-	-	ical limit values:
108-10-1 4-methylpentan-2-one		n-2-one
BEI (USA) 1 mg/L Medium: urine Time: end of shift		
	Parameter: M	
108-88-3 t		
BEI (USA)	0.02 mg/L	
,	Medium: bloo	
		last shift of workweek
	Parameter: T	oluene
	0.03 mg/L	
	Medium: urine	e
	Time: end of	shift
	Parameter: T	oluene
	0.3 mg/g crea	atinine
	Medium: urine	
	Time: end of shift	
	Parameter: 0.	Crocol with bydrolygig (bookground)
	controls	-Cresol with hydrolysis (background)
General p The usual Keep away Wash han Immediate Breathing Not require In case of exposure Short term	controls protective equ rotective and precautionary if y from foodstuf ds before breal ely remove all s equipment: ed with good ver brief exposure use respiratory i filter device:	Lipment: hygienic measures: measures for handling chemicals should be followed. fs, beverages and feed. ks and at the end of work. oiled and contaminated clothing. entilation and/or adequate extractor facilities e or low pollution use respiratory filter device. In case of intensive or lor protective device that is independent of circulating air.
Personal General p The usual Keep away Wash han Immediate Breathing Not require In case of exposure Short term A2 (DIN E	controls protective equ rotective and precautionary i y from foodstuf ds before breat by remove all so equipment: ed with good ve brief exposure use respiratory i filter device: N 14387 / DIN	Lipment: hygienic measures: measures for handling chemicals should be followed. fs, beverages and feed. ks and at the end of work. oiled and contaminated clothing. entilation and/or adequate extractor facilities e or low pollution use respiratory filter device. In case of intensive or lor protective device that is independent of circulating air.
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Personal General p The usual Keep away Wash han Immediate Breathing Not require In case of exposure of Short term A2 (DIN E Protection Direct con protectant product af Complianc The gloves For the pe If longer e strain is re	controls protective equ rotective and precautionary if y from foodstuft ds before breat edy remove all s equipment: ed with good ver brief exposure use respiratory filter device: N 14387 / DIN n of hands: tact with the ch before working ter the work. we with the state s need to be dis ermanent cont xposure to the ecommended in	Jipment: hygienic measures: measures for handling chemicals should be followed. fs, beverages and feed. ks and at the end of work. oiled and contaminated clothing. entilation and/or adequate extractor facilities e or low pollution use respiratory filter device. In case of intensive or lor protective device that is independent of circulating air. EN 141) nemical preparation must be avoided by organizational measures. Apply g with gloves to avoid skin swellings and use a skin cleansing and skind ed penetration time (starts with the first product contact) must be ensured
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- As protection from splashes gloves made of the following materials are suitable: Recommended for protection from splashes: disposable nitrile gloves (minimum thickness 0.12 mm) with long cuffs. After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

- Eye protection: Safety glasses

9 Physical and chemical properties

 Information on basic physical a - General Information 	and chemical properties
- Appearance:	
Form:	Fluid
Color:	Grey
- Odor:	Solvent-like
- Change in condition	
Boiling point/Boiling range:	110 °C (230 °F)
- Flash point:	16 °C (61 °F)
- Ignition temperature:	460 °C (860 °F)
- Explosion limits:	
Lower:	1.2 Vol %
Upper:	8.0 Vol %
- Vapor pressure at 20 °C (68 °F)	: 29 hPa (22 mm Hg)
- Density at 20 °C (68 °F):	0.95 g/cm³ (7.928 lbs/gal)
- Solubility in / Miscibility with	
Water:	Partly soluble.
- Solvent content:	
Organic solvents:	74.4 %
VOC content:	74.4 %
	706.7 g/l / 5.90 lb/gl
- Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
- To avoid thermal decomposition do not overheat.
- Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
- None, if used according to instructions and stored according to regulations

11 Toxicological information

- Information on toxicological effects

Acute toxicity:

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 2946 mg/kg (rat)

Inhalative LC50/4 h 16.2 mg/l

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108-10-1 4	4-methylp	entan-2-one	
Oral	LD50	2080 mg/kg (rat)	
Inhalative	LC50/4 h	11 mg/l (ATE)	
108-88-3 t	oluene		
Oral	LD50	5000 mg/kg (rat)	
Dermal	LD50	12124 mg/kg (rab)	
Inhalative	LC50/4 h	5320 mg/l (mus)	
	l toxicolo	to skin and mucous membranes. gical information: Harmful J ories	
- IARC (Inte	ernational	Agency for Research on Cancer)	
1330-20-7	xylene, m	nixed isomers, pure	3
128-37-0	2,6-di-ter	t-butyl-p-cresol	3
- NTP (Nati	onal Toxi	cology Program)	
None of th	e ingredie	nts is listed.	
- OSHA-Ca	(Occupat	ional Safety & Health Administration)	
None of th	e ingredie	nts is listed.	

12 Ecological information

- Toxicity
- Aquatic toxicity:
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes: Do not allow product to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation: Disposal in accordance with official regulations
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number - DOT, ADR,RID,ADN, IMDG, IATA	UN1133
- UN proper shipping name - DOT - ADR/RID/ADN - IMDG - IATA	Adhesives 1133 Adhesives, ENVIRONMENTALLY HAZARDOUS ADHESIVES (zinc oxide), MARINE POLLUTANT ADHESIVES

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_	(Contd. of page
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
ADR,RID,ADN, IMDG	
3	
Class	3 Flammable liquids
Label	3
ΙΑΤΑ	
3	
Class	3 Flammable liquids
Label	3
Packing group	
ADR,RID,ADN, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Yes (DOT) Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	30
EMS Number:	F-E,S-D
Stowage Category	A
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Special marking with the symbol (fish and tree).
ADR/RID/ADN	0 4 -0
Excepted quantities (EQ)	Code: E2 Maximum pet quantity per inper packaging: 30 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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- UN "Model Regulation":

UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture - Sara

- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):

1330-20-7 xylene, mixed isomers, pure

78-93-3 butanone 67-56-1 methanol

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:

67-56-1 methanol

- Cancerogenity categories

- EPA (Environmental Protection Agency)

1330-20-7 xylene, mixed isomers, pure

78-93-3 butanone

- TLV (Threshold Limit Value established by ACGIH)

1330-20-7 xylene, mixed isomers, pure

128-37-0 2,6-di-tert-butyl-p-cresol

77-58-7 dibutyltin dilaurate

- MAK (German Maximum Workplace Concentration)

128-37-0 2,6-di-tert-butyl-p-cresol

96-29-7 2-butanone oxime

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

For industrial use only.

- Department issuing SDS:

- Date of preparation / last revision 09/23/2016 / -

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- Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- * Data compared to the previous version altered.