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Safety Data Sheet acc. to OSHA HCS

Printing date 07/05/2017

Reviewed on 05/22/2017

1 Identification

- Product identifier
- Trade name: CILBOND 49 SF
- Article number: R025807-00
- 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: (calls from USA: Please dial 01149 instead of +49) 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) - 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.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- Label elements

- GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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- Hazard pictograms

(Contd. of page 1)

Hazard pic	
V V	
GHS02 G	aHS07 GHS08
Signal wor	d Danger
	ermining components of labeling:
butanone	ad isomera, pure
ethylbenzer	ed isomers, pure
Hazard sta	
	/ flammable liquid and vapor.
H319 Caus	es serious eye irritation.
	ause drowsiness or dizziness.
	ause damage to organs through prolonged or repeated exposure.
	be fatal if swallowed and enters airways.
	ary statements
	from heat/sparks/open flames/hot surfaces. No smoking.
	utionary measures against static discharge.
	hing mist/vapours/spray.
	tdoors or in a well-ventilated area. ctive gloves / eye protection.
	WED: Immediately call a POISON CENTER/ doctor.
	Rinse cautiously with water for several minutes. Remove contact lenses, if present ar
	Continue rinsing.
	luce vomiting.
If eye irritati	on persists: Get medical advice/attention.
	ell-ventilated place.
	information:
	abel information: "WARNING: This product contains a chemical known to the State
	cause cancer."
Other haza	
	PBT and vPvB assessment
PBT: Not a	
vPvB: Not a	applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- **Description:** Mixture of several substances

78-93-3	butanone	25-50%
	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	
1330-20-7	xylene, mixed isomers, pure	< 10%
	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
763-69-9	ethyl 3-ethoxypropionate	< 10%
	Flam. Liq. 3, H226	
108-65-6	2-methoxy-1-methylethyl acetate	< 10%
	Flam. Liq. 3, H226	
100-41-4	ethylbenzene	< 2.5%
	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	
- SVHC Doe	sn't contain SVHC-substances.	

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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 mild cleaning agent.	а
- 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.	
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.	
- Methods and material for containment and cleaning up: Pick up mechanically.	
- Reference to other sections	
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Handling and storage	
- Handling:	
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.	
- Information about protection against explosions and fires:	
Keep ignition sources away - Do not smoke.	
Protect against electrostatic charges.	

Fumes can combine with air to form an explosive mixture.

- Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from foodstuffs.

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	sealed. rect sunlight.	
8 Exposure controls	personal protection	
- Additional information	about design of technical systems: No further data; see item 7.	
The following constituer recommended exposure	values that require monitoring at the workplace: Ints are the only constituents of the product which have a PEL, TLV or other limit. Instituents have no known exposure limits.	
78-93-3 butanone		
PEL (USA)	Long-term value: 590 mg/m ³ , 200 ppm	
REL (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm	
TLV (USA)	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm BEI	
IOELV (European Union) Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm	
108-65-6 2-methoxy-1-		
WEEL (USA)	Long-term value: 50 ppm	
IOELV (European Union) Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin	
100-41-4 ethylbenzene		
PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm	
REL (USA)	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm	
TLV (USA)	Long-term value: 87 mg/m ³ , 20 ppm BEI	
IOELV (European Union) Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin	
- Ingredients with biolog	jical limit values:	
78-93-3 butanone		
BEI (USA) 2 mg/L Medium: urir Time: end of Parameter: I	shift	
1330-20-7 xylene, mixe	d isomers, pure]
BEI (USA) 1.5 g/g creat Medium: urir Time: end of Parameter: 1	ne	
	(Contd. on page 5)	
		<u> </u>

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	(Contd. of page 4
100-41-4 ethylbenzene	
BEI (USA) 0.7 g/g creatinine Medium: urine Time: end of shift at e Parameter: Sum of quantitative)	end of workweek mandelic acid and phenylglyoxylic acid (nonspecific, semi-
-	
Medium: end-exhaled Time: not critical	
	zene (semi-quantitative)
 Exposure controls Personal protective equipment 	:
- General protective and hygieni	c measures:
	es for handling chemicals should be followed.
Keep away from foodstuffs, beve	
Wash hands before breaks and a	
Immediately remove all soiled an - Breathing equipment:	a contaminated ciotning.
	n and/or adequate extractor facilities
	pollution use respiratory filter device. In case of intensive or longe
exposure use respiratory protecti	ve device that is independent of circulating air.
Short term filter device:	
A2 (DIN EN 14387 / DIN EN 141)	
- Protection of hands:	
	preparation must be avoided by organizational measures. Apply sk loves to avoid skin swellings and use a skin cleansing and skinca
product after the work.	loves to avoid skill swellings and use a skill cleansing and skillca
Compliance with the stated pene	tration time (starts with the first product contact) must be ensured!
	tration time (starts with the first product contact) must be ensured! of after the penetration time and new gloves used!
The gloves need to be disposed of - For the permanent contact gloves	of after the penetration time and new gloves used! ves made of the following materials are suitable:
The gloves need to be disposed of For the permanent contact glov If longer exposure to the chemic	of after the penetration time and new gloves used! ves made of the following materials are suitable: al preparation is necessary, a sturdy overglove against mechanic
The gloves need to be disposed of For the permanent contact glove If longer exposure to the chemic strain is recommended in combined in	of after the penetration time and new gloves used!
The gloves need to be disposed of For the permanent contact glov If longer exposure to the chemic strain is recommended in combin time 480 min).	of after the penetration time and new gloves used! ves made of the following materials are suitable: cal preparation is necessary, a sturdy overglove against mechanic nation with the "Barrier 02-100" underglove from Ansell (penetration
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The gloves need to be disposed of For the permanent contact glov If longer exposure to the chemic strain is recommended in combin- time 480 min). For the permanent contact of materials are suitable: Fluorinated rubber (Viton) [0.7mm As protection from splashes gl Recommended for protection fro- with long cuffs. After contact w immediately and put on a new dis Eye protection: Safety glasses 9 Physical and chemical pro - Information on basic physical a - General Information - Appearance: Form: Color: - Odor: - Odor threshold: - Change in condition	of after the penetration time and new gloves used! ves made of the following materials are suitable: al preparation is necessary, a sturdy overglove against mechanic nation with the "Barrier 02-100" underglove from Ansell (penetration of a maximum of 15 minutes gloves made of the following n - penetration time 15 min] loves made of the following materials are suitable: m splashes: disposable nitrile gloves (minimum thickness 0.12 mm ith the chemical preparation, take the disposable nitrile glove of sposable nitrile glove. Operties and chemical properties Fluid Red Solvent-like Not determined.

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- Ignition temperature:	315 °C (599 °F)	
- Explosion limits:		
Lower:	1.0 Vol %	
Upper:	11.5 Vol %	
- Vapor pressure at 20 °C (68 °F):	104 hPa (78 mm Hg)	
- Density at 20 °C (68 °F):	0.85 g/cm ³ (7.093 lbs/gal)	
- Vapor density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
Water:	Partly soluble.	
- Partition coefficient (n-octanol/wa	ter): Not determined.	
- Solvent content:		
Organic solvents:	76.0 %	
VOC content:	76.0 %	
	647.4 g/l / 5.40 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:

		at are relevant for classification: y Estimate)
Oral	LD50	4284 mg/kg (rat)
Dermal	LD50	10044 mg/kg
Inhalative	LC50/4 h	37.7 mg/l
1330-20-7	xylene, m	nixed isomers, pure
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	1100 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/l (ATE)
100-41-4 e	ethylbenze	ene
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)
Inhalative	LC50/4 h	11 mg/l (ATE)
67-56-1 m	ethanol	
Oral	LD50	5628 mg/kg (rat)
		(Contd. on page 2

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			(Contd. of page 6)
Dermal	LD50	300 mg/kg (ATE)	
Inhalative	LC50/4 h	3 mg/l (ATE)	
- Additiona	n: Irritant I toxicolo	o skin and mucous membranes. gical information: Harmful	
- Carcinoge		ories Agency for Research on Cancer)	
•		lixed isomers, pure	3
	ethylbenz	· · ·	2B
1309-37-1	diiron trio	xide	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: No further relevant information available.
- 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 ADHESIVES	
		(Contd. on page 8)

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 Transport hazard class(es) 	
- DOT	
RAMMELE LOCO	
- Class	3 Flammable liquids
- Label	3
- ADR/RID/ADN, IMDG, IATA	
- Class	3 Flammable liquids
- Label	3
- Packing group - DOT, ADR/RID/ADN, IMDG, IATA	II
- Environmental hazards:	Not applicable.
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids 30 F-E,S-D
- Stowage Category	Α
- Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
- Transport/Additional information:	
- ADR/RID/ADN	
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
- LAUEPIEU QUAITITIES (EQ)	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

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 3	13 (Specific toxic chemical listings):			
78-93-3	butanone			
1330-20-7	xylene, mixed isomers, pure			
100-41-4	ethylbenzene			
67-56-1	methanol			
	(Contd. on page 9)			

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		(Contd. of page 8)		
	- TSCA (Toxic Substances Control Act):			
	All ingredients are listed.			
	- Proposition 65			
	- Chemicals known to cause cancer:			
	100-41-4 ethylbenzene			
	 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)			
	78-93-3 butanone	<u> </u>		
	1330-20-7 xylene, mixed isomers, pure	1		
	100-41-4 ethylbenzene	D		
	- TLV (Threshold Limit Value established by ACGIH)			
	1330-20-7 xylene, mixed isomers, pure	A4		
	100-41-4 ethylbenzene	A3		
	1309-37-1 diiron trioxide	A4		
	- MAK (German Maximum Workplace Concentration)			
	100-41-4 ethylbenzene	ЗA		
	- NIOSH-Ca (National Institute for Occupational Safety and Health)			
	None of the ingredients is listed.			
	- National regulations:			
	- Information about limitation of use:			
	Employment restrictions concerning young persons must be observed.	4		
	- 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			
	For industrial use only. Store in its original container, which must be tightly sealed, in a well-ventilated area! Stir thoroughly			
	before and during use! Observe material safety data sheets!			
	- Department issuing SDS:			
	- Date of preparation / last revision 07/05/2017 / -			
	 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 Agreem	ent 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	Contd on page 10		
		Contd. on page 10)		

(Contd. on page 10)

[—] US

US

Safety Data Sheet acc. to OSHA HCS

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Trade name: CILBOND 49 SF

	(Contd. of page 9)
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	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
- * Data compared to the previous version altered.	
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