



Page 1/12

US

### Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/08/2016

### **1** Identification

- Product identifier
- Trade name: CILBOND 12 E
- Article number: R025000-00
- 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) - 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.		
Skin Irrit. 2	H315	Causes skin irritation.		
Eye Dam. 1	H318	Causes serious eye damage.		
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.		
Carc. 2	H351	Suspected of causing cancer.		
Repr. 2	H361	Suspected of damaging fertility or the unborn child.		
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.		
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.		
		(Contd. on page 2)		

Printing date 09/23/2016

Reviewed on 09/08/2016

## Trade name: CILBOND 12 E

	(Contd. of page 1)
Aquatic Acute 2 H401 Toxic to aquatic life.	
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.	
- Label elements - GHS label elements	
The product is classified and labeled according to the Globally Harmonized System	m (GHS).
- Hazard pictograms	· · · ·
$\land \land \land \land \land \land$	
GHS02 GHS05 GHS07 GHS08 GHS09	
- Signal word Danger	
- Hazard-determining components of labeling:	
toluene resorcinol	
methenamine	
2-butanone oxime	
- Hazard statements	
H225 Highly flammable liquid and vapor. H315 Causes skin irritation.	
H318 Causes serious eye damage.	
H334 May cause allergy or asthma symptoms or breathing difficulties if inha	aled.
H317 May cause an allergic skin reaction.	
<ul><li>H351 Suspected of causing cancer.</li><li>H361 Suspected of damaging fertility or the unborn child.</li></ul>	
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.	
H373 May cause damage to organs through prolonged or repeated exposur	e.
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/protective clothing/eye protection/face 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.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with If in eyes: Rinse cautiously with water for several minutes. Remove contact ler	
easy to do. Continue rinsing.	ises, il present and
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.	
Do NOT induce vomiting.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/internatio	nal regulations.
- Other hazards	-
In the event of a large-scale use of the product, ignition sources in the immedia	
low-lying areas, such as welding equipment, bells, heating elements, refrigerate etc. should be switched off! Erect warning signs warning of the hazardous risk of e	
	(Contd. on page 3)

\_\_\_\_US

(Contd. of page 2)

### Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/08/2016

### Trade name: CILBOND 12 E

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:	
108-88-3	toluene	20-<40%
108-10-1	4-methylpentan-2-one	< 12.5%
78-93-3	butanone	< 10%
64742-95-6	hydrocarbons C9, aromatics	< 10%
1330-20-7	xylene, mixed isomers, pure	< 10%
108-46-3	resorcinol	< 5.0%
1314-13-2	zinc oxide	< 2.5%
100-97-0	methenamine	< 2.5%
100-41-4	ethylbenzene	< 2.0%
96-29-7	2-butanone oxime	< 2.0%
108-31-6	maleic anhydride	< 0.5%
25068-38-6	epoxy resin (bisphenol-A/epichlorhydrin; molecular weight ≤ 700)	< 0.2%
- SVHC Does	n't contain SVHC-substances	· · · ·

- Additional information:

CAS-Nr. 64742-95-6 (solventnaphtha [petroleum], light aromatic) => Content of benzene [CAS-Nr.: 71-43-2] < 0,1%

### **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

(Contd. on page 4)

US

Printing date 09/23/2016

Reviewed on 09/08/2016

### Trade name: CILBOND 12 E

- Sne	cial hazard	s arising	from the	substance	or mixture
ope	sciai nazai u	s an sing	monn the	Substance	

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.
- Further information about storage conditions:

Protect from frost.

Keep receptacle tightly sealed. Protect from heat and direct sunlight. Store receptacle in a well ventilated area. Store in dry conditions.

- Storage class (according german VCI-concept): 3

- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

# **108-88-3 toluene** PEL (USA) Long-term value: 200 ppm Ceiling limit value: 300; 500\* ppm \*10-min peak per 8-hr shift REL (USA) Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV (USA) Long-term value: 75 mg/m³, 20 ppm BEI

– US

(Contd. of page 3)

Printing date 09/23/2016

Reviewed on 09/08/2016

108-10-1 4-methylpenta	n-2-one	(Contd. of page
PEL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm	
· · ·		
REL (USA)	Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 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/m <sup>3</sup> , 20 ppm	
78-93-3 butanone		
PEL (USA)	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm	
REL (USA)	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm	
	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm	
TLV (USA)	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm	
	Long-term value: 590 mg/m³, 200 ppm	
	BEI	
IOELV (European Union)	Short-term value: 900 mg/m³, 300 ppm	
	Long-term value: 600 mg/m <sup>3</sup> , 200 ppm	
108-46-3 resorcinol		
REL (USA)	Short-term value: 90 mg/m <sup>3</sup> , 20 ppm	
	Long-term value: 45 mg/m <sup>3</sup> , 10 ppm	
TLV (USA)	Short-term value: 90 mg/m <sup>3</sup> , 20 ppm	
	Long-term value: 45 mg/m <sup>3</sup> , 10 ppm	
IOELV (European Union)	Long-term value: 45 mg/m³, 10 ppm Skin	
100-41-4 ethylbenzene		
PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm	
REL (USA)	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm	
	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm	
TLV (USA)	Long-term value: 87 mg/m³, 20 ppm BEI	
IOELV (European Union)	Short-term value: 884 mg/m³, 200 ppm	
	Long-term value: 442 mg/m³, 100 ppm Skin	
96-29-7 2-butanone oxin		
WEEL (USA)	Long-term value: 10 ppm	
	DSEN	
108-31-6 maleic anhydri		
PEL (USA)	Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm	
REL (USA)	Long-term value: 1 mg/m <sup>3</sup> , 0.25 ppm	
TLV (USA)	Long-term value: 0.01* mg/m³, 0.0025* ppm DSEN, RSEN;*inhalable fraction + vapor	
		(Contd. on page

Printing date 09/23/2016

Reviewed on 09/08/2016

	(Contd. of page 5
- Ingredients 108-88-3 to	s with biological limit values:
BEI (USA)	Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
108-10-1 4·	-methylpentan-2-one
BEI (USA)	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
78-93-3 bu	tanone
BEI (USA)	2 mg/L Medium: urine Time: end of shift Parameter: MEK
1330-20-7	xylene, mixed isomers, pure
BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
100-41-4 e	thylbenzene
	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi- quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)
	information:
9mg/m <sup>3</sup> [Sy TLV (threst	oxim: ived No Effect Level) / Workers / Exposure via inhalation route: /stemic effects - Long term exposure] hold limit value): 0,3 ml/m³; 1 mg/m³ (according german regulation, concerning maximu on value at the workplace [AGW])
- General pr The usual p	protective equipment: rotective and hygienic measures: precautionary measures for handling chemicals should be followed. from foodstuffs, beverages and feed.
Wash hand	Is before breaks and at the end of work. y remove all soiled and contaminated clothing.

(Contd. of page 6)

# Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/08/2016

### Trade name: CILBOND 12 E

# - Breathing equipment: Short term filter device:

A2 (DIN EN 14387 / DIN EN 141)					
	, ours is preferably recommended at the workplace. Extraction a				
	vapours are produced. The vapours are heavier than air. Extraction				
	rd direction is hence advantageous. An alternative room ventilation				
needs to be homogenous with a defined air exchange. The air exchange for the room must be					
capable of meeting the occupational exposure limits stated in chapter 8.					
Where selective extraction and/or room ventilation is impossible, a self-contained breathing					
	e intensive and/or longer exposure.				
<ul> <li>Protection of hands:</li> </ul>					
	preparation must be avoided by organizational measures. Apply ski				
	loves to avoid skin swellings and use a skin cleansing and skincar				
product after the work.					
	tration time (starts with the first product contact) must be ensured!				
	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				
time 480 min).	of a maximum of 15 minutes gloves made of the followin				
materials are suitable:	of a maximum of 15 minutes groves made of the following				
Fluorinated rubber (Viton) [0.7mm	n population time 15 minl				
	loves made of the following materials are suitable:				
	m splashes: disposable nitrile gloves (minimum thickness 0.12 mn				
	ith the chemical preparation, take the disposable nitrile glove o				
	SOOSADIE DIIDIE DIOVE				
immediately and put on a new dis - <b>Eye protection:</b> Safety glasses					
- Eye protection: Safety glasses	operties				
- Eye protection: Safety glasses Physical and chemical pro	operties				
- Eye protection: Safety glasses Physical and chemical pro- Information on basic physical a	operties				
- Eye protection: Safety glasses Physical and chemical pro- Information on basic physical a General Information	operties				
- Eye protection: Safety glasses - Physical and chemical pro- - Information on basic physical a - General Information - Appearance:	operties and chemical properties				
- Eye protection: Safety glasses - Physical and chemical pro- - Information on basic physical a - General Information - Appearance: Form:	operties and chemical properties				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a</li> <li>General Information</li> <li>Appearance: Form: Color:</li> </ul>	operties and chemical properties Fluid Grey				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> </ul>	operties and chemical properties Fluid Grey				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Change in condition</li> </ul>	operties and chemical properties Fluid Grey Solvent-like				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection</li> <li>Information on basic physical and chemical protection</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:</li> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Change in condition     <ul> <li>Boiling point/Boiling range:</li> </ul> </li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> <li>Ignition temperature:</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits:</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection</li> <li>Information on basic physical and chemical protection</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:         <ul> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Change in condition         <ul> <li>Boiling point/Boiling range:</li> </ul> </li> <li>Flash point:     <ul> <li>Ignition temperature:</li> <li>Explosion limits:         <ul> <li>Lower:             <ul> <li>Upper:</li> </ul> </li> </ul></li></ul></li></ul></li></ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol %				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection</li> <li>Information on basic physical and chemical protection</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:         <ul> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Change in condition         <ul> <li>Boiling point/Boiling range:</li> </ul> </li> <li>Flash point:     <ul> <li>Ignition temperature:</li> <li>Explosion limits:         <ul> <li>Lower:</li> </ul> </li> </ul></li></ul></li></ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol % : 104 hPa (78 mm Hg)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits: Lower: Upper:</li> <li>Vapor pressure at 20 °C (68 °F):</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol %				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection</li> <li>Information on basic physical and chemical protection</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:</li> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Change in condition     <ul> <li>Boiling point/Boiling range:</li> </ul> </li> <li>Flash point: <ul> <li>Ignition temperature:</li> <li>Explosion limits:     <ul> <li>Lower:</li> <li>Upper:</li> </ul> </li> <li>Vapor pressure at 20 °C (68 °F)</li> </ul></li></ul>	operties           and chemical properties           Fluid           Grey           Solvent-like           80 °C (176 °F)           9 °C (48 °F)           315 °C (599 °F)           1.0 Vol %           50.0 Vol %           1: 104 hPa (78 mm Hg)           0.95 g/cm³ (7.928 lbs/gal)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits: Lower: Upper:</li> <li>Vapor pressure at 20 °C (68 °F)</li> <li>Density at 20 °C (68 °F):</li> <li>Solubility in / Miscibility with Water:</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol % : 104 hPa (78 mm Hg)				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection on basic physical and chemical protection on basic physical and chemical protection on basic physical and chemical protection.</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:         <ul> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Odor:</li> <li>Change in condition         <ul> <li>Boiling point/Boiling range:</li> </ul> </li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits:         <ul> <li>Lower:             <ul> <li>Upper:</li> </ul> </li> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Solubility in / Miscibility with Water:</li> <li>Viscosity:</li> </ul> </li> </ul></li></ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol % 1: 104 hPa (78 mm Hg) 0.95 g/cm³ (7.928 lbs/gal) Partly soluble.				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical pro- Information on basic physical a General Information</li> <li>Appearance: Form: Color:</li> <li>Odor:</li> <li>Odor:</li> <li>Change in condition Boiling point/Boiling range:</li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits: Lower: Upper:</li> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Solubility in / Miscibility with Water:</li> <li>Viscosity: Dynamic:</li> </ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol % 1: 104 hPa (78 mm Hg) 0.95 g/cm³ (7.928 lbs/gal) Partly soluble. Not determined.				
<ul> <li>Eye protection: Safety glasses</li> <li>Physical and chemical protection on basic physical and chemical protection on basic physical and chemical protection on basic physical and chemical protection.</li> <li>General Information</li> <li>Appearance:     <ul> <li>Form:         <ul> <li>Color:</li> <li>Odor:</li> </ul> </li> <li>Odor:</li> <li>Change in condition         <ul> <li>Boiling point/Boiling range:</li> </ul> </li> <li>Flash point:</li> <li>Ignition temperature:</li> <li>Explosion limits:         <ul> <li>Lower:             <ul> <li>Upper:</li> </ul> </li> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Solubility in / Miscibility with Water:</li> <li>Viscosity:</li> </ul> </li> </ul></li></ul>	operties and chemical properties Fluid Grey Solvent-like 80 °C (176 °F) 9 °C (48 °F) 315 °C (599 °F) 1.0 Vol % 50.0 Vol % 1: 104 hPa (78 mm Hg) 0.95 g/cm³ (7.928 lbs/gal) Partly soluble.				

(Contd. on page 8)

US

(Contd. of page 7)

# Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/08/2016

### Trade name: CILBOND 12 E

- Solvent content:
Organic solvents:
VOC content:

- Other information

72.0 % 73.0 % 693.7 g/l / 5.79 lb/gl 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 tha	t are relevant for classification:
ATE (Acut	te Toxicity	/ Estimates)
Oral	LD50	3105 mg/kg
Dermal	LD50	16238 mg/kg
Inhalative	LC50/4 h	48.2 mg/l
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)
108-10-1 4	l-methylp	entan-2-one
Oral	LD50	2080 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)
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)
108-46-3 r	esorcinol	
Oral	LD50	500 mg/kg (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)
96-29-7 2-	butanone	oxime
Dermal	LD50	1100 mg/kg (ATE)
7782-49-2	selenium	
Oral	LD50	100 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)
		(Contd. on page

Printing date 09/23/2016

Reviewed on 09/08/2016

### Trade name: CILBOND 12 E

- Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- Additional toxicological information:
- Harmful

The processing and subsequent hardening (vulcanization) of the product generates methylethyl ketone oxime (MEKO), which vaporizes. Long-term exposure to MEKO can harm nasal mucosa. Inhaling MEKO in high concentrations (e.g. with insufficient ventilation and/or extraction) over long periods of time can cause irreversible damage to health!

#### - Carcinogenic categories

- IARC (International Agency for Research on Cancer)

1330-20-7 xylene, mixed isomers, pure

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

#### - NTP (National Toxicology Program)

None of the ingredients is listed.

### - OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients 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.

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

(Contd. of page 8)

3

3

Printing date 09/23/2016

Reviewed on 09/08/2016

Transport bazard alass(sa)	(Contd. of pa
Transport hazard class(es)	
- DOT	
- Class - Label	3 Flammable liquids 3
ADR,RID,ADN, IMDG	5
- Class	3 Flammable liquids
- Label	3
- IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, 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: - Stowage Category	F-E,S-D 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	
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E2 Movimum pet quantity per inper peckeging: 20 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 m
	maximum net quantity per outer packaging. 1000 m

(Contd. of page 10)

# Safety Data Sheet acc. to OSHA HCS

Printing date 09/23/2016

Reviewed on 09/08/2016

## Trade name: CILBOND 12 E

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 No further relevant information available.

- Sara		
	55 (extremely hazardous substances):	
None of the	e ingredient is listed.	
	3 (Specific toxic chemical listings):	
1330-20-7	xylene, mixed isomers, pure	
	butanone	
67-56-1	methanol	
- TSCA (To	kic Substances Control Act):	
•	ents are listed.	
- Propositio		
	s known to cause cancer:	
None of the	e ingredients is listed.	
- Chemicals	s known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
- Chemicals	s known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
- Chemicals	s known to cause developmental toxicity:	
67-56-1 m	ethanol	
-	enity categories	
•	ronmental Protection Agency)	
	xylene, mixed isomers, pure	I
78-93-3	butanone	I
•	shold Limit Value established by ACGIH)	
	xylene, mixed isomers, pure	A4
	2,6-di-tert-butyl-p-cresol	A4
77-58-7	dibutyltin dilaurate	A4
- MAK (Ger	man Maximum Workplace Concentration)	
	2,6-di-tert-butyl-p-cresol	4
96-29-7	2-butanone oxime	2
- NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	e ingredients is listed.	
- Chemical	safety assessment: A Chemical Safety Assessment has not been carried out	

- 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 / -

Printing date 09/23/2016

Reviewed on 09/08/2016

(Contd. of pa	ıge 11)
- Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regul Concerning the International Transport of Dangerous Goods by Rail)	ations
ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerni	ng 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	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
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	
	US