

Safety Data Sheet acc. to OSHA HCS

Printing date 01/08/2019

Reviewed on 09/08/2016

1 Identification

- Product identifier

- Trade name: CILBOND 20

- Article number: R025003-00

- 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@kommerlinguk.com
(calls from USA: Please dial 01149 instead of +49)

- Information department:

Abteilung: C-U Qualitäts- und Umweltmanagement
(department: C-U Quality- and Environmental Management)
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.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
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 the hearing organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

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- Label elements

- GHS label elements

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

- Hazard pictograms



GHS02 GHS05 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labeling:

xylene, mixed isomers, pure
resorcinol
toluene
ethylbenzene
methenamine
2-butanone oxime

- Hazard statements

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

- Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P403 Store in a well-ventilated place.

- Other hazards

In the event of a large-scale use of the product, ignition sources in the immediate proximity and in low-lying areas, such as welding equipment, bells, heating elements, refrigerators, storage heaters 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.

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- vPvB: Not applicable.

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3 Composition/information on ingredients

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

- Dangerous components:

CAS: 1330-20-7	xylene, mixed isomers, pure 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	20-<40%
CAS: 78-93-3	butanone Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	10-20%
CAS: 108-46-3	resorcinol Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	<10%
CAS: 100-41-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	<10%
CAS: 64742-95-6	hydrocarbons C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335-H336	<10%
CAS: 108-88-3	toluene Flam. Liq. 2, H225; Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	<10%
CAS: 100-97-0	methenamine Flam. Sol. 2, H228; Skin Sens. 1, H317	<5%
CAS: 108-10-1	4-methylpentan-2-one Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335	<5%
CAS: 96-29-7	2-butanone oxime Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317; Flam. Liq. 4, H227	<1%

- **SVHC** Doesn't contain SVHC-substances.

- Additional information:

EC number 918-668-5: Outside Europe, this substance is allocated CAS no. 64742-95-6 (solvent naphtha [petroleum], slightly aromatic); benzene content [CAS no.: 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.

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- **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.
- **Further information about storage conditions:**
Protect from frost.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

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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.

CAS: 1330-20-7 xylene, mixed isomers, pure

PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

CAS: 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

CAS: 108-46-3 resorcinol

REL (USA)	Short-term value: 90 mg/m ³ , 20 ppm Long-term value: 45 mg/m ³ , 10 ppm
TLV (USA)	Short-term value: 90 mg/m ³ , 20 ppm Long-term value: 45 mg/m ³ , 10 ppm
IOELV (European Union)	Long-term value: 45 mg/m ³ , 10 ppm Skin

CAS: 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

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TLV (USA)	Long-term value: 87 mg/m ³ , 20 ppm BEI
IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
CAS: 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/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 75 mg/m ³ , 20 ppm BEI
IOELV (European Union)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Skin
CAS: 108-10-1 4-methylpentan-2-one	
PEL (USA)	Long-term value: 410 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 82 mg/m ³ , 20 ppm BEI
IOELV (European Union)	Short-term value: 208 mg/m ³ , 50 ppm Long-term value: 83 mg/m ³ , 20 ppm
CAS: 96-29-7 2-butanone oxime	
WEEL (USA)	Long-term value: 10 ppm DSEN
- Ingredients with biological limit values:	
CAS: 1330-20-7 xylene, mixed isomers, pure	
BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
CAS: 78-93-3 butanone	
BEI (USA)	2 mg/L Medium: urine Time: end of shift Parameter: MEK

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CAS: 100-41-4 ethylbenzene

BEI (USA)	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)
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CAS: 108-88-3 toluene

BEI (USA)	0.02 mg/L 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)
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CAS: 108-10-1 4-methylpentan-2-one

BEI (USA)	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
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- Additional information:

2-Butanonoxim:

DNEL (Derived No Effect Level) / Workers / Exposure via inhalation route:

9mg/m³ [Systemic effects - Long term exposure]

TLV (threshold limit value): 0,3 ml/m³; 1 mg/m³ (according german regulation, concerning maximum concentration value at the workplace [AGW])

- Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

- Breathing equipment:

Short term filter device:

A2 (DIN EN 14387 / DIN EN 141)

Selective extraction of the vapours is preferably recommended at the workplace. Extraction as closely as possible to where the vapours are produced. The vapours are heavier than air. Extraction away from the face in a downward direction is hence advantageous. An alternative room ventilation

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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 apparatus must be used for more intensive and/or longer exposure.

- Protection of hands:

Direct contact with the chemical preparation must be avoided by organizational measures. Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

Compliance with the stated penetration time (starts with the first product contact) must be ensured!

The gloves need to be disposed of after the penetration time and new gloves used!

- For the permanent contact gloves made of the following materials are suitable:

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the "Barrier 02-100" underglove from Ansell (penetration time 480 min).

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Fluorinated rubber (Viton) [0.7mm - penetration time 15 min]

- 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 and chemical properties

- General Information

- Appearance:

Form:	Fluid
Color:	Grey
- Odor:	Solvent-like
- Odor threshold:	Not determined.

- Change in condition

Boiling point/Boiling range:	80 °C (176 °F)
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- Flash point:	-6 °C (21.2 °F)
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- Ignition temperature:	430 °C (806 °F)
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- Explosion limits:

Lower:	1.0 Vol %
Upper:	11.5 Vol %

- Vapor pressure at 20 °C (68 °F):	104 hPa (78 mm Hg)
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- Density at 20 °C (68 °F):	0.95 g/cm ³ (7.93 lbs/gal)
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- Vapor density	Not determined.
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- Evaporation rate	Not determined.
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- Solubility in / Miscibility with

Water:	Partly soluble.
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- **Partition coefficient (n-octanol/water):** Not determined.
- **Solvent content:**
 - Organic solvents:** 71.9 %
 - VOC content:** 72.4 %
 - 688.2 g/l / 5.74 lb/gal
- **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 Estimate)

Oral	LD50	2,693 mg/kg
Dermal	LD50	3,360 mg/kg
Inhalative	LC50/4 h	22.8 mg/l

CAS: 1330-20-7 xylene, mixed isomers, pure

Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/l (ATE)

CAS: 78-93-3 butanone

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rbt)
Inhalative	LC50/4 h	40 mg/l (mus)

CAS: 108-46-3 resorcinol

Oral	LD50	500 mg/kg (ATE)
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CAS: 100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)
Inhalative	LC50/4 h	11 mg/l (ATE)

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CAS: 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rab)
Inhalative	LC50/4 h	5,320 mg/l (mus)

CAS: 108-10-1 4-methylpentan-2-one

Oral	LD50	2,080 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

CAS: 96-29-7 2-butanone oxime

Dermal	LD50	1,100 mg/kg (ATE)
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CAS: 1025-15-6 1,3,5-tris-2'-propenylisocyanuric acid

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)

- 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!

- concerning carcinogenic substances:

The homogeneous mixing of this product is guaranteed through continuous physical tests. What were formerly dusty raw materials are completely integrated into the liquid/pasty mass. The possible risk "May cause cancer", caused through formerly dusty raw materials, is therefore excluded in this mixture.

- Carcinogenic categories**- IARC (International Agency for Research on Cancer)**

The potential risk of carcinogenic effect is not given by carbon black (please see also the clue in "ADDITIONAL TOXICOLOGICAL INFORMATION" of chapter 11).

CAS: 1330-20-7	xylene, mixed isomers, pure	3
CAS: 100-41-4	ethylbenzene	2B
CAS: 108-88-3	toluene	3
CAS: 108-10-1	4-methylpentan-2-one	2B
CAS: 1333-86-4	carbon black	2B
CAS: 7631-86-9	silicon dioxide	3
CAS: 105-11-3	p-benzoquinone dioxime	3
CAS: 128-37-0	Butylated hydroxytoluene	3
CAS: 106-89-8	1-chloro-2,3-epoxypropane	2A

- NTP (National Toxicology Program)

CAS: 106-89-8	1-chloro-2,3-epoxypropane	R
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- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
Harmful 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	Adhesives
- ADR/RID/ADN	1133 ADHESIVES
- IMDG, IATA	ADHESIVES
- Transport hazard class(es)	
- DOT	
	
- Class	3 Flammable liquids
- Label	3
- ADR/RID/ADN, IMDG, IATA	
	
- Class	3 Flammable liquids

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- Label	3
- Packing group	
- DOT, ADR/RID/ADN, IMDG, IATA	II
- Environmental hazards:	Not applicable.
- 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 II of MARPOL73/78 and the IBC Code	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)	5L
- Excepted quantities (EQ)	Code: E1 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):

CAS: 106-89-8	1-chloro-2,3-epoxypropane
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- Section 313 (Specific toxic chemical listings):

CAS: 1330-20-7	xylene, mixed isomers, pure
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CAS: 78-93-3	butanone
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CAS: 100-41-4	ethylbenzene
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CAS: 108-88-3	toluene
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CAS: 108-10-1	4-methylpentan-2-one
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CAS: 1314-13-2	zinc oxide
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CAS: 106-89-8	1-chloro-2,3-epoxypropane
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- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65

- Chemicals known to cause cancer:

CAS: 100-41-4	ethylbenzene
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CAS: 108-10-1	4-methylpentan-2-one
CAS: 1333-86-4	carbon black
CAS: 106-89-8	1-chloro-2,3-epoxypropane

- Additional information:

The potential risk of carcinogenic effect is not given by carbon black (please see also the clue in "ADDITIONAL TOXICOLOGICAL INFORMATION" of chapter 11).

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

CAS: 106-89-8 | 1-chloro-2,3-epoxypropane

- Chemicals known to cause developmental toxicity:

CAS: 108-88-3 | toluene

CAS: 108-10-1 | 4-methylpentan-2-one

- Cancerogenity categories**- EPA (Environmental Protection Agency)**

CAS: 1330-20-7	xylene, mixed isomers, pure	I
CAS: 78-93-3	butanone	I
CAS: 100-41-4	ethylbenzene	D
CAS: 108-88-3	toluene	II
CAS: 108-10-1	4-methylpentan-2-one	I
CAS: 1314-13-2	zinc oxide	D, I, II
CAS: 106-89-8	1-chloro-2,3-epoxypropane	B2

- TLV (Threshold Limit Value established by ACGIH)

CAS: 1330-20-7	xylene, mixed isomers, pure	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 108-88-3	toluene	A4
CAS: 1333-86-4	carbon black	A4
CAS: 128-37-0	Butylated hydroxytoluene	A4
CAS: 106-89-8	1-chloro-2,3-epoxypropane	A3

- MAK (German Maximum Workplace Concentration)

CAS: 100-41-4	ethylbenzene	3A
CAS: 1333-86-4	carbon black	3B
CAS: 96-29-7	2-butanone oxime	2
CAS: 128-37-0	Butylated hydroxytoluene	4
CAS: 106-89-8	1-chloro-2,3-epoxypropane	2

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

CAS: 1333-86-4	carbon black
CAS: 106-89-8	1-chloro-2,3-epoxypropane

(Contd. on page 14)

Safety Data Sheet acc. to OSHA HCS

Printing date 01/08/2019

Reviewed on 09/08/2016

Trade name: **CILBOND 20**

(Contd. of page 13)

- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
- **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.

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** 01/08/2019 / -
- **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

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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

Asp. Tox. 1: Aspiration hazard – Category 1

- * **Data compared to the previous version altered.**