

## SECTION 1: Identification of the substance/mixture and of the company/undertaking


- **1.1 Product identifier**
- Trade name:** PERGAQUICK C60 X
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Accelerator for polymerisation / crosslinking  
For industrial use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** PERGAN GmbH  
Hilfsstoffe für industrielle Prozesse  
Schlavenhorst 71  
D-46395 Bocholt  
Tel: +49 2871 9902-0  
Fax: +49 2871 9902-50
- **Further information obtainable from:**  
Competent person:  
\* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com  
\* Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com  
\* Environment protection / : Mr. Christoph Wiltung, e-mail: c.wiltung@pergan.com  
Security of labour
- **1.4 Emergency telephone number:** - Tel: +49 2871 9902-0

## \* SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1B	H360Fd	May damage fertility. Suspected of damaging 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.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:** cobalt(II) 2-ethylhexanoate  
xylene  
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate
- **Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.

## Trade name: PERGAQUICK C60 X

(Contd. of page 1)

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:** Restricted to professional users.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

### \* SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Dangerous components:**

CAS: 6846-50-0 EINECS: 229-934-9 Reg-No.: 01-2119451093-47	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Repr. 2, H361d; Aquatic Chronic 3, H412	30-40%
CAS: 136-52-7 EINECS: 205-250-6 Reg-No.: 01-2119524678-29	cobalt(II) 2-ethylhexanoate Repr. 1B, H360Fd; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	30-40%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg-No.: 01-2119488216-32	xylene Consisting of: 1330-20-7 xylene; 100-41-4 ethylbenzene; 108-88-3 toluene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	25-30%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**



Take care of personal protection for the first aider.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.  
 In case of unconsciousness place patient stably in side position for transportation.  
 Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
 Immediately remove contaminated clothing.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

· **Additional information**

Self-protection first!

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.  
 Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)  
 GB

## Trade name: PERGAQUICK C60 X

(Contd. of page 2)

- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.



Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.

- **6.4 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.  
In case of large spillage the environmental authority should be informed.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.  
Use only in well ventilated areas.  
Before break and at the end of work hands should be thoroughly washed.  
Avoid contact with skin and eyes.  
While using do not eat, drink or smoke.



Do not smoke.

- **Information about fire - and explosion protection:**

Protect against electrostatic charges.  
Keep respiratory protective device available.  
Highly volatile, flammable constituents are released during processing.  
Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:** Pay attention to the special requirements of your local authorities for storing dangerous goods.

- **Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.  
Use only receptacles specifically permitted for this substance/product.

- **Information about storage in one common storage facility:**

Store away from peroxide.  
Store away from foodstuffs, drinks and feeding stuffs.

- **Further information about storage conditions:**

Keep container tightly sealed.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.  
Store under lock and key and out of the reach of children.  
Storage in a collecting room is required.

- **Recommended storage temperature (To maintain quality):**

+5 .... +30 °C

- **Storage class:**

3

- **7.3 Specific end use(s)**

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**

No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

#### 1330-20-7 xylene

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
---------------------	--

(Contd. on page 4)

**Trade name: PERGAQUICK C60 X**

(Contd. of page 3)

IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin	
<b>· DNELs</b>		
<b>6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate</b>		
Dermal	DNEL Longterm System	5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	17.62 mg/m <sup>3</sup> (Worker)
<b>136-52-7 cobalt(II) 2-ethylhexanoate</b>		
Inhalative	DNEL Longterm Local	0.2351 mg/m <sup>3</sup> (Worker)
<b>1330-20-7 xylene</b>		
Dermal	DNEL Longterm System	212 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	221 mg/m <sup>3</sup> (Worker)
<b>· PNECs</b>		
<b>6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate</b>		
PNEC Marinewater sed	0.529 mg/kg sed dw (-)	
PNEC Freshwater	0.014 mg/l (AF 50)	
PNEC Freshwater sed	5.29 mg/kg sed dw	
PNEC Soil	1.05 mg/kg soil dw	
PNEC STP	3 mg/l (AF 10)	
PNEC Marinewater	0.001 mg/l (AF 500)	
<b>136-52-7 cobalt(II) 2-ethylhexanoate</b>		
PNEC Marinewater sed	69.8 mg/kg sed dw (AF 10)	
PNEC Freshwater	0.0006 mg/l (-)	
PNEC Freshwater sed	53.8 mg/kg sed dw (AF 10)	
PNEC Soil	10.9 mg/kg soil dw (AF 2)	
PNEC STP	0.37 mg/l (AF 10)	
PNEC Marinewater	0.00236 mg/l (-)	
<b>1330-20-7 xylene</b>		
PNEC Marinewater sed	12.46 mg/kg sed dw	
PNEC Freshwater	0.327 mg/l (-)	
PNEC Freshwater sed	12.46 mg/kg sed dw	
PNEC Soil	2.31 mg/kg soil dw	
PNEC STP	6.58 mg/l	
PNEC Marinewater	0.327 mg/l	
<b>· Ingredients with biological limit values:</b>		
<b>1330-20-7 xylene</b>		
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid	

**· Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid close or long term contact with the skin.  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.  
Use skin protection cream for skin protection.  
Be sure to clean skin thoroughly after work and before breaks.

**· Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.



Filter A2

**· Protection of hands:**

Only use chemical-protective gloves with CE-labelling of category III.

(Contd. on page 5)  
GB

Trade name: **PERGAQUICK C60 X**

(Contd. of page 4)



Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Butyl rubber, BR  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Neoprene

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

· **Body protection:**

Protective work clothing

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

· Form:	Fluid
· Colour:	Violet
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

#### · Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	Not applicable.

· Flash point: 56 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Not determined.

#### · Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C:	1.01 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

#### · Solubility in / Miscibility with

· water: Undetermined.

· Partition coefficient: n-octanol/water: not determined  
Not determined.

#### · Viscosity:

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· 9.2 Other information No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

(Contd. on page 6)

Trade name: **PERGAQUICK C60 X**

(Contd. of page 5)

- **10.6 Hazardous decomposition products:** No hazardous decomposition products if used and stored according to specifications.
- **Additional information:** Emergency procedures will vary depending on conditions. The customer should have an emergency response plan in place.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate**

Oral	LD50	3,200 mg/kg (rattus)
Dermal	LD50	18,900 mg/kg (caviinae)

**136-52-7 cobalt(II) 2-ethylhexanoate**

Oral	LD50	3,129 mg/kg (rattus)
------	------	----------------------

**1330-20-7 xylene**

Oral	LD50	3,520 mg/kg (rattus)
Dermal	LD50	12,126 mg/kg (cuniculosus)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility. Suspected of damaging the unborn child.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**136-52-7 cobalt(II) 2-ethylhexanoate**

LC50 / 96h	1.5 mg/l (piscis)
------------	-------------------

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish  
Harmful to fish
- **Additional ecological information:**
- **General notes:** Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
Harmful to aquatic organisms  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.






(Contd. on page 7)

Trade name: **PERGAQUICK C60 X**

(Contd. of page 6)

- **Uncleaned packaging:**
- **Recommendation:** This material and its container must be disposed of as hazardous waste.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b> · <b>ADR, IMDG, IATA</b>	UN1993
· <b>14.2 UN proper shipping name</b> · <b>ADR</b>  · <b>IMDG</b>  · <b>IATA</b>	UN1993 FLAMMABLE LIQUID, N.O.S. (XYLENES, cobalt(II) 2-ethylhexanoate), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (XYLENES, cobalt(II) 2-ethylhexanoate), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (XYLENES, cobalt(II) 2-ethylhexanoate)
· <b>14.3 Transport hazard class(es)</b> · <b>ADR</b>	
 	
· <b>Class</b> · <b>Label</b>	3 (F1) Flammable liquids. 3
· <b>IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids. 3
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids. 3
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: cobalt(II) 2-ethylhexanoate
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>Stowage Category</b>	Warning: Flammable liquids. 30 A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	3 D/E
· <b>RID / GGVSEB:</b>	like ADR
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Trade name: **PERGAQUICK C60 X**

(Contd. of page 7)

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- **Directive 2012/18/EU**
- **Named dangerous substances**
  - **ANNEX I** None of the ingredients is listed.
- **Seveso category** E1 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Please note:** Take care of the respective local regulations.

### SECTION 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.

- **Relevant phrases**
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H360Fd May damage fertility. Suspected of damaging the unborn child.
  - H361d Suspected of damaging the unborn child.
  - H373 May cause damage to organs through prolonged or repeated exposure.
  - H400 Very toxic to aquatic life.
  - H412 Harmful to aquatic life with long lasting effects.
- **Contact:** Tel: +49 2871 9902-0  
E-mail: mail@pergan.com
- **Abbreviations and acronyms:**
  - 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
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Repr. 1B: Reproductive toxicity – Category 1B
  - 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
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **\* Data compared to the previous version altered.**