

according to UK REACH Regulation

### **EpoClad Series**

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

#### 1.1. Product identifier

**EpoClad Series** 

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

**Photoresist** 

Product Categories [PC]: Photochemical

Sector of uses [SU]: Manufacture of computer, electronic and optical products, electrical equipment.

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name: micro resist technology GmbH

Street: Koepenicker Str. 325
Place: D-12555 Berlin

Telephone: +49 30 641670-100 Telefax: +49 30 641670-200

e-mail: safety@microresist.de Internet: www.microresist.de

1.4. Emergency telephone Chemtrec (International - 24 h): +1 703 527 3887

number:

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H336 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

### **GB CLP Regulation**

#### Hazard components for labelling

gamma-Butyrolactone

epoxy resin

2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran Mixture of triarylsulfonium hexafluoroantimonate salts

Signal word: Danger

Pictograms:







#### **Hazard statements**

H302 Harmful if swallowed.H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.



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H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

#### Special labelling of certain mixtures

45 - < 50 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).

#### 2.3. Other hazards

P310

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

### 3.2. Mixtures

# **Hazardous components**

Chemical name			Quantity	
EC No	Index No	REACH No		
Classification (GB CLP Regula	tion)			
gamma-butyrolactone			30 - 60 %	
202-509-5		01-2119533169-37		
Acute Tox. 4, Eye Dam. 1, STO	OT SE 3; H302 H318 H336			
epoxy resin			10 - 70 %	
Skin Irrit. 2, Eye Irrit. 2, Skin S	ens. 1; H315 H319 H317			
2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran				
Acute Tox. 4, Acute Tox. 4, Ski	n Irrit. 2, Eye Irrit. 2, Skin Sen	s. 1; H332 H302 H315 H319 H317		
propylene carbonate			1 - 15 %	
203-572-1	607-194-00-1			
Eye Irrit. 2; H319	•	•		
Mixture of triarylsulfonium hexafluoroantimonate salts				
Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410				
	EC No Classification (GB CLP Regular gamma-butyrolactone 202-509-5 Acute Tox. 4, Eye Dam. 1, STO epoxy resin Skin Irrit. 2, Eye Irrit. 2, Skin So 2,2'-[oxybis[(methyl-2,1-ethane Acute Tox. 4, Acute Tox. 4, Skin propylene carbonate 203-572-1 Eye Irrit. 2; H319 Mixture of triarylsulfonium hexa	EC No  Classification (GB CLP Regulation)  gamma-butyrolactone  202-509-5  Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H336  epoxy resin  Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317  2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran  Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens  propylene carbonate  203-572-1  Eye Irrit. 2; H319  Mixture of triarylsulfonium hexafluoroantimonate salts	EC No Index No REACH No  Classification (GB CLP Regulation)  gamma-butyrolactone  202-509-5 01-2119533169-37  Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H336  epoxy resin  Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317  2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran  Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H332 H302 H315 H319 H317  propylene carbonate  203-572-1 607-194-00-1  Eye Irrit. 2; H319  Mixture of triarylsulfonium hexafluoroantimonate salts	

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
96-48-0	202-509-5	gamma-butyrolactone	30 - 60 %
	dermal: LD50 =	>5000 mg/kg; oral: LD50 = 1582 mg/kg	
041638-13-5		2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran	5 - 20 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg		
108-32-7	203-572-1	propylene carbonate	1 - 15 %
dermal: LD50 = > 23800 mg/kg; oral: LD50 = 34600 mg/kg			

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. If victim is at risk of losing consciousness, position and transport on their side. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

After contact with skin, wash immediately with plenty of water. Change contaminated clothing. Subsequently wash off with: Water and soap. In case of skin irritation, seek medical treatment.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

## After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Causes serious eye damage.

Causes skin irritation.

May cause drowsiness or dizziness.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Foam.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.





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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal. Clean contaminated articles and floor according to the environmental legislation. Do not rinse down with water.

### 6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

See protective measures under point 7 and 8.

#### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

#### Advice on general occupational hygiene

When using do not eat, drink or smoke. Protect skin by using skin protective cream. After work, wash hands and face. Immediately remove any wetted clothing, shoes or stockings.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Suitable floor material: Solvent-proof.

Keep container tightly closed in a cool, well-ventilated place.

Further information concerning storage conditions: Observe technical data sheet.: Processing Guidelines

#### Hints on joint storage

Do not store together with:

Oxidising agent

Self-heating substances and mixtures

#### Further information on storage conditions

Protect against: heat. UV-radiation/sunlight.

#### 7.3. Specific end use(s)

No data available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters



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#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
96-48-0	gamma-butyrolactone			
Worker DNEL,	long-term	inhalation	systemic	130 mg/m³
Worker DNEL,	acute	inhalation	systemic	958 mg/m³
Worker DNEL,	long-term	dermal	systemic	19 mg/kg bw/day

#### **PNEC values**

CAS No	Substance		
Environment	tal compartment	Value	
96-48-0	gamma-butyrolactone		
Freshwater 0,056 mg/l		0,056 mg/l	
Marine water		0,006 mg/l	
Freshwater sediment		0,24 mg/kg	
Marine sediment 0,0		0,02 mg/kg	
Soil 0,015 mg		0,015 mg/kg	

#### Additional advice on limit values

No data available

#### 8.2. Exposure controls













#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment. Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact:

Suitable material: Butyl rubber. Thickness of glove material: 0.7 mm

penetration time (maximum wearing period): > 480 min

Recommended protective gloves brand: KCL 898 Butoject, Manufacturer: KCL GmbH, D-36124 Eichenzell,

Source of supply: www.kcl.de

Wearing time with occasional contact (splashes):

Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

penetration time (maximum wearing period): > 30 min



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Recommended protective gloves brand: KCL 730 Camatril-Velours, Manufacturer: KCL GmbH, D-36124 Eichenzell, Source of supply: www.kcl.de

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: aerosol or mist generation. Filtering device (full mask or mouthpiece) with filter: a

#### **Environmental exposure controls**

Do not allow uncontrolled leakage of product into the environment.

### **SECTION 9: Physical and chemical properties**

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

Physical state: liquid Colour: colourless Odour: characteristic

Test method

No data available Melting point/freezing point:

Boiling point or initial boiling point and 204 °C @00000000004

boiling range:

Flammability: No data available No data available Lower explosion limits: No data available Upper explosion limits:

>70 °C DIN EN ISO 13736 Flash point:

No data available Auto-ignition temperature: No data available Decomposition temperature: pH-Value: No data available No data available Viscosity / kinematic: Water solubility: No data available

Solubility in other solvents No data available

Partition coefficient n-octanol/water:

No data available No data available Vapour pressure: Vapour pressure: No data available 1,0-1,20 g/cm<sup>3</sup> Density (at 20 °C): Bulk density: No data available Relative vapour density: No data available

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties No data available Self-ignition temperature

> Solid: No data available Gas: No data available

Oxidizing properties No data available

## Other safety characteristics





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No data available Evaporation rate: Solvent separation test: No data available Solvent content: No data available Solid content: No data available Sublimation point: No data available Softening point: No data available Pour point: No data available Viscosity / dynamic: 30-1200 mPa·s

(at 20 °C)

Flow time: No data available

### **Further Information**

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

## 10.2. Chemical stability

No data available

### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

UV-radiation/sunlight.

Keep away from heat. Ignition hazard.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agents.

Acid, concentrated.

Alkalis (alkalis), concentrated.

### 10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

Harmful if swallowed.

@000000000004:

Acute toxicity, oral LD50: 1540 mg/kg species: Rat (IUCLID)

#### **ATEmix calculated**

ATE (oral) 1731,5 mg/kg



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
96-48-0	gamma-butyrolactone					
	oral	LD50 mg/kg	1582	Rat	ECHA	
	dermal	LD50 mg/kg	>5000	Guinea-pig.		
041638-13-5	2,2'-[oxybis[(methyl-2,1-e	thanediyl)ox	ymethylene]	]bis-oxiran		
	oral	ATE mg/kg	500			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
108-32-7	propylene carbonate					
	oral	LD50 mg/kg	34600	Rat	GESTIS	
	dermal	LD50 mg/kg	> 23800	Rabbit	GESTIS	

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Method: Calculation method.

#### Sensitising effects

May cause an allergic skin reaction. (epoxy resin; 2,2'-[oxybis[(methyl-2,1-ethanediyl)oxymethylene]]bis-oxiran;

Mixture of triarylsulfonium hexafluoroantimonate salts)

May cause sensitization by skin contact.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (gamma-butyrolactone)

Method: Calculation method.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## Information on likely routes of exposure

inhalation, ingestion, skin contact, eye contact

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

No data available

## **SECTION 12: Ecological information**

### 12.1. Toxicity

@000000000004:

Acute fish toxicity LC50: 460 mg/L 96h Leuciscus idus



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
96-48-0	gamma-butyrolactone						
	Acute fish toxicity	LC50 mg/l	>220		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50	360 mg/l		Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	>500	l .	Daphnia magna (Big water flea)		

#### 12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation	-		
96-48-0	gamma-butyrolactone			
		90%	13	

### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
96-48-0	gamma-butyrolactone	-0,57
108-32-7	propylene carbonate	-0,41

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

No data available

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No data available

### 12.7. Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains.

Dispose of waste according to applicable legislation.

Consult the local waste disposal expert about waste disposal.

#### Contaminated packaging

Dispose of waste according to applicable legislation.

Consult the local waste disposal expert about waste disposal.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number: UN 3082



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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2. UN proper shipping name:

(Mixture of triarylsulfonium hexafluoroantimonate salts)

14.3. Transport hazard class(es): 9 Ш 14.4. Packing group: Hazard label: 9

Classification code: M6

**Special Provisions:** 274 335 375 601

Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 90 Tunnel restriction code: Ε

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not classified for this carrier.

Marine transport (IMDG)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Mixture of triarylsulfonium hexafluoroantimonate salts)

14.3. Transport hazard class(es): 9 14.4. Packing group: Ш 9

Hazard label:



Special Provisions: 274, 335, 969

Limited quantity: 5 L Excepted quantity: E1 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN 3082 14.1. UN number or ID number:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2. UN proper shipping name:

(Mixture of triarylsulfonium hexafluoroantimonate salts)

14.3. Transport hazard class(es): 9 14.4. Packing group: Ш

Hazard label: 9



Special Provisions: A97 A158 A197

Limited quantity Passenger: 30 kg G Passenger LQ: Y964 Excepted quantity: F1

IATA-packing instructions - Passenger: 964 IATA-max. quantity - Passenger: 450 L IATA-packing instructions - Cargo: 964 IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards



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ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: Mixture of triarylsulfonium hexafluoroantimonate salts

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

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

# EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): 31-75 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

chapter: 1, 7, 9, 11, 13, 14

## 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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Classification for mixtures and used evaluation method according to GB CLP Regulation

Gladelineation for mixtures and about evaluation motified about any to GB GET Regulation				
Classification	Classification procedure			
Acute Tox. 4; H302 Calculation method				
Skin Irrit. 2; H315	Calculation method			
Eye Dam. 1; H318	Calculation method			
Skin Sens. 1; H317	Calculation method			
STOT SE 3; H336	Calculation method			
Aquatic Chronic 2; H411	Calculation method			



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### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)