



# Safety Data Sheet

according to UK REACH Regulation

## Hardener LT (formerly R&G EPH 161)

Revision date: 19.12.2023

Product code: 112125

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

#### 1.1. Product identifier

Hardener LT (formerly R&amp;G EPH 161)

UFI: GFH0-QA9N-900W-69C2

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

##### Use of the substance/mixture

epoxy resin hardener

##### Uses advised against

No further relevant information available.

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

Company name:	Suter Kunststoffe AG	
Street:	Aefligenstrasse 3	
Place:	CH-3312 Fraubrunnen	
Telephone:	+41 (0)31 763 60 60	Telefax: +41 (0)31 763 60 61
e-mail:	info@swiss-composite.ch	
Internet:	www.swiss-composite.ch	
Responsible Department:	Sales Team	

#### 1.4. Emergency telephone

**number:** Tox Info Suisse 145  
from abroad +41 44 251 51 51

### SECTION 2: Hazards identification

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

##### GB CLP Regulation

Acute Tox. 4; H302  
Acute Tox. 4; H312  
Skin Corr. 1B; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group  
3,6-diazaoctanethylenediamin; triethylenetetramine

**Signal word:** Danger

**Pictograms:**



##### Hazard statements

H302+H312 Harmful if swallowed or in contact with skin.



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H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

### 2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Hardener

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			50 - 100 %
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317			
9046-10-0	Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group			10 - 25 %
	618-561-0			
	Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 3; H314 H318 H412			
112-24-3	3,6-diazaoctane-1,8-diamine			2,5-10%
	203-950-6	612-059-00-5	01-2119487919-13	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	50 - 100 %	
	dermal: LD50 = 1840 mg/kg; oral: ATE 1030 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100			
9046-10-0	618-561-0	Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group	10 - 25 %	
	dermal: LD50 = 2980 mg/kg; oral: LD50 = 2885 mg/kg			
112-24-3	203-950-6	3,6-diazaoctane-1,8-diamine	2,5-10%	
	dermal: LD50 = 1465 mg/kg; oral: LD50 = 1716 mg/kg			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



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#### General information

Take off immediately all contaminated clothing.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Let water be drunken in little sips (dilution effect). Provide fresh air. Call a physician immediately.

#### 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 media

Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water spray jet.  
In case of major fire and large quantities: Water spray jet, alcohol resistant foam

##### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Use suitable breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

### SECTION 6: Accidental release measures

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

##### General advice

Provide adequate ventilation. Use personal protection equipment. Evacuate area.

##### For non-emergency personnel

No information available.

##### For emergency responders

No information available.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Collect and dispose of contaminated water.

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

##### For containment

No information available.

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**For cleaning up**

No information available.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation. Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

The usual precautions when handling chemicals must be observed. Keep receptacles tightly sealed.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a dry place. Keep/Store only in original container. Provide for retaining containers, e.g. floor pan without outflow.

**Hints on joint storage**

Do not store together with: Food and feedingstuffs

**Further information on storage conditions**

Protect against: FrostProtect against the effects of heat and direct sunlight.

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

No further relevant information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	inhalation		20,1 mg/m <sup>3</sup>
112-24-3	3,6-diazaoctane-1,8-diamine	dermal	systemic	5380 mg/kg bw/day
		inhalation	systemic	1 mg/m <sup>3</sup>

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Freshwater		0,06 mg/l
Marine water		0,006 mg/l
9046-10-0 Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group		
Freshwater		0,015 mg/l
Marine water		0,0142 mg/l
112-24-3 3,6-diazaoctane-1,8-diamine		
Freshwater		0,135 mg/l
Marine water		0,0027 mg/l

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material  $\geq 0,5$  mm

Unsuitable material: Leather articles

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. (Category III) 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.

Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

Penetration time of the glove material The exact penetration time must be obtained from the protective glove manufacturer and must be observed.

Value for permeation: Level = 6

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

short-term:

Filtering device (full mask or mouthpiece) with filter: A-P2



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### SECTION 9: Physical and chemical properties

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

Physical state:	Liquid	
Colour:	yellow	
Odour:	like: Amines	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		> 200 °C
Flammability:		not applicable not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 100 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		not determined
Water solubility:		Immiscible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 23 °C):		0,93 g/cm <sup>3</sup>
Relative vapour density:		not determined

#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:

The product is not: Spontaneously flammable.

Gas:

The product is not: Spontaneously flammable.

Oxidizing properties

Not oxidising.

##### Other safety characteristics

Evaporation rate:

not determined

Viscosity / dynamic:  
(at 25 °C)

not determined

##### Further Information

No information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Thermal decomposition: none

#### 10.3. Possibility of hazardous reactions

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No known hazardous reactions.

**10.4. Conditions to avoid**

No further relevant information available.

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin.

**ATEmix calculated**

ATE (oral) 1205 mg/kg; ATE (dermal) 1999 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	ATE 1030 mg/kg			
	dermal	LD50 1840 mg/kg	Rabbit	Manufacturer	
9046-10-0	Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group				
	oral	LD50 2885 mg/kg	Rat	Manufacturer	
	dermal	LD50 2980 mg/kg	Rabbit	Manufacturer	
112-24-3	3,6-diazaoctane-1,8-diamine				
	oral	LD50 1716 mg/kg	rat		
	dermal	LD50 1465 mg/kg	rat		

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 3,6-diazaoctane-1,8-diamine)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**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.

**11.2. Information on other hazards**

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**Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute fish toxicity	LC50 110 mg/l	96 h	Leuciscus idus (golden orfe)	Manufacturer	EG 88/449
	Acute algae toxicity	ErC50 > 50 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	EG 88/302
	Acute crustacea toxicity	EC50 23 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
9046-10-0	Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group					
	Acute fish toxicity	LC50 >15 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 15 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 80 mg/l	48 h	Daphnia magna (Big water flea)		
112-24-3	3,6-diazaoctane-1,8-diamine					
	Acute fish toxicity	LC50 330 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 20 mg/l	72 h	Selenastrum capricornutum (Grünalge)		
	Acute crustacea toxicity	EC50 31 mg/l	48 h	Daphnia magna		
	Acute bacteria toxicity	(EC50 137 mg/l)		Pseudomonas putida		

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information 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.  
not applicable**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 information available.

**12.7. Other adverse effects**

No information available.

**Further information**Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Undiluted or nonneutralised product may not enter waste water channel or main outfall.  
hazardous to water (WGK 2)





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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Product can be disposed of with household waste after curing.

Liquid: Send to a hazardous waste incinerator facility under observation of official regulations.

#### List of Wastes Code - residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

#### List of Wastes Code - used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

#### Contaminated packaging

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number or ID number:

UN 2735

#### 14.2. UN proper shipping name:

AMINE, FLÜSSIG, ÄTZEND, N.A.G.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMIN;  
ISOPHORONDIAMIN;  
REAKTIONSPRODUKT VON PROPAN-1,2-DIOL, PROPOXYLIERT  
DURCH AMINIERUNG DER TERMINALEN HYDROXYLGRUPPE)

#### 14.3. Transport hazard class(es):

8

#### 14.4. Packing group:

III

Hazard label:

8



Classification code:

C7

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

2

Hazard No:

80

Tunnel restriction code:

E

#### Other applicable information (land transport)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### Inland waterways transport (ADN)

#### 14.1. UN number or ID number:

UN 2735

#### 14.2. UN proper shipping name:

AMINE, FLÜSSIG, ÄTZEND, N.A.G.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMIN;  
ISOPHORONDIAMIN;  
REAKTIONSPRODUKT VON PROPAN-1,2-DIOL, PROPOXYLIERT  
DURCH AMINIERUNG DER TERMINALEN HYDROXYLGRUPPE)

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**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Classification code:

C7

Limited quantity:

5 L

Excepted quantity:

E1

**Marine transport (IMDG)****14.1. UN number or ID number:**

UN 2735

**14.2. UN proper shipping name:**AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE;  
ISOPHORONEDIAMINE; REACTION PRODUCT OF  
PROPANE-1,2-DIOL, PROPOXYLATED BY AMINATION OF THE  
TERMINAL HYDROXYL GROUP)**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Marine pollutant:

-

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

Segregation group:

18 - alkalis

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:**

UN 2735

**14.2. UN proper shipping name:**AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE;  
ISOPHORONEDIAMINE; REACTION PRODUCT OF  
PROPANE-1,2-DIOL, PROPOXYLATED BY AMINATION OF THE  
TERMINAL HYDROXYL GROUP)**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Limited quantity Passenger:

5 L

Excepted quantity:

E1

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No

**14.6. Special precautions for user**

Warning: Substances, corrosive

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**

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**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, Entry 75

2004/42/EC (VOC): 0,0 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**



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### Abbreviations and acronyms

CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
Acute Tox: Acute toxicity  
Skin Corr: Skin corrosion  
Eye Dam: Eye damage  
Skin Sens: Skin sensitisation  
Aquatic Chronic: Chronic aquatic hazard

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

H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.



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