



## SHINE HD Glass Cleaner Concentrate

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

#### 1.1. Product identifier

SHINE HD Glass Cleaner Concentrate

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

##### Use of the substance/mixture

Washing and cleaning products

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

Company name:	SCHOLL Concepts GmbH	
	Polish & Pad Manufaktur	
Street:	Maybachstrasse 7	
Place:	D-71686 Remseck	
Telephone:	+49 (0) 7141 29299 - 0	Telefax: +49 (0) 7141 29299 - 10
e-mail:	sds@schollconcepts.com	
Internet:	www.schollconcepts.com	

**1.4. Emergency telephone number:** +49 (0) 89 19240 (Giftnotruf Technische Universität München)

### SECTION 2: Hazards identification

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

##### Regulation (EC) Nr. 1272/2008.

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

#### 2.2. Label elements

##### Regulation (EC) Nr. 1272/2008.

**Signal word:** Warning

**Pictograms:**



##### Hazard statements

H319 Causes serious eye irritation.

##### Precautionary statements

P102 Keep out of reach of children.

**SHINE HD Glass Cleaner Concentrate**

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of waste according to applicable legislation.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
67-63-0	isopropanol			15 - < 20 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
111-76-2	2-butoxyethanol			5 - < 10 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H302 H315 H319			
1336-21-6	Ammonia			< 1 %
	215-647-6	007-001-01-2	02-2119752451-43	
	Skin Corr. 1B, STOT SE 3, Aquatic Acute 1; H314 H335 H400			
105-60-2	epsylon-caprolactam			< 1 %
	203-313-2	613-069-00-2		
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H302 H315 H319 H335			

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

**SHINE HD Glass Cleaner Concentrate****Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
67-63-0	200-661-7	isopropanol	15 - < 20 %
		inhalation: LC50 = >25 mg/l (vapours); dermal: LD50 = 12800 mg/kg; oral: LD50 = 5840 mg/kg	
111-76-2	203-905-0	2-butoxyethanol	5 - < 10 %
		inhalation: LC50 = 2,25 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: ATE 1200 mg/kg	
1336-21-6	215-647-6	Ammonia	< 1 %
		STOT SE 3; H335: >= 5 - 100	
105-60-2	203-313-2	epsylon-caprolactam	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 8,16 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1475-1876 mg/kg	

**Labelling for contents according to Regulation (EC) No 648/2004**

< 5 % non-ionic surfactants, perfumes.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

No special measures are necessary. When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**



## SHINE HD Glass Cleaner Concentrate

### Suitable extinguishing media

Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray jet. Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

Full water jet

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

No special measures are necessary.

### 5.3. Advice for firefighters

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

### Additional information

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

## SECTION 6: Accidental release measures

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

#### General measures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use 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). Treat the recovered material as prescribed in the section on waste disposal.

### 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

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Wash hands before breaks and after work. When using do not eat, drink or smoke. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protection equipment. Take off contaminated clothing and wash it before reuse.

**SHINE HD Glass Cleaner Concentrate****Advice on protection against fire and explosion**

No special fire protection measures are necessary. Only use the material in places where open light, fire and other flammable sources can be kept away.

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

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

**Hints on joint storage**

Do not store together with: Oxidising agent. Strong acid. Strong alkali.

**Further information on storage conditions**

Recommended storage temperature: 15-25°C

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

Automotive care products

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
105-60-2	1,6-Hexanolactam, dust and vapour	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
7664-41-7	Ammonia, anhydrous	25	18		TWA (8 h)	WEL
		35	25		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift



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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
67-63-0	isopropanol			
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	500 mg/m <sup>3</sup>
111-76-2	2-butoxyethanol			
Worker DNEL, acute		inhalation	systemic	1091 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	59 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	147 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	6,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	98 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	246 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	426 mg/m <sup>3</sup>
Consumer DNEL, acute		oral	systemic	26,7 mg/kg bw/day
105-60-2	epsylon-caprolactam			
Worker DNEL, long-term		inhalation	local	5 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	10 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	2,5 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	5 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	8,55 mg/kg bw/day

## SHINE HD Glass Cleaner Concentrate

### PNEC values

CAS No	Substance	
Environmental compartment		Value
67-63-0	isopropanol	
Freshwater		140,9 mg/kg
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Soil		28 mg/kg
111-76-2	2-butoxyethanol	
Freshwater		8,8 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Secondary poisoning		0,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		2,33 mg/kg
105-60-2	epsylon-caprolactam	
Freshwater		2 mg/l
Marine water		0,2 mg/l
Freshwater sediment		18,7 mg/kg
Marine sediment		1,87 mg/kg
Soil		2,55 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

Use only in well-ventilated areas.

#### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not smoke. When using do not eat or drink. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Draw up and observe skin protection programme.



## SHINE HD Glass Cleaner Concentrate

### Eye/face protection

Wear eye/face protection. Suitable eye protection: Eye glasses with side protection (DIN EN 166)

### 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 must be worn. Recommended glove articles : Rotiprotect Nitril Eco, Thickness of the glove material 0,1 mm, level 1 > 10 min. (DIN EN 374)

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

No special environmental measures are necessary. Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	pink
Odour:	characteristic
pH-Value (at 20 °C):	10,1
<b>Changes in the physical state</b>	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	80-100 °C
Flash point:	61 °C
<b>Flammability</b>	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
<b>Self-ignition temperature</b>	
Solid:	not applicable



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Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapour pressure: (at 20 °C)	48 hPa
Vapour pressure: (at 50 °C)	239 hPa
Density (at 20 °C):	0,975 g/cm <sup>3</sup>
Water solubility:	completely miscible
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient n-octanol/water:	not determined
Viscosity / kinematic: (at 40 °C)	24 mm <sup>2</sup> /s
Evaporation rate:	not determined
<b>9.2. Other information</b>	
Solid content:	not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Strong acid. Strong alkali. Highly oxidising substances.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in the Regulation (EC) Nr. 1272/2008**

**SHINE HD Glass Cleaner Concentrate****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	isopropanol				
	oral	LD50 5840 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 12800 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 >25 mg/l	Rat	ECHA	OECD 403
111-76-2	2-butoxyethanol				
	oral	ATE 1200 mg/kg			
	dermal	LD50 >2000 mg/kg	Guinea pig	ECHA	OECD 402
	inhalation (4 h) vapour	LC50 2,25 mg/l	Rat	ECHA	OECD 433
	inhalation aerosol	ATE 1,5 mg/l			
105-60-2	epsylon-caprolactam				
	oral	LD50 1475-1876 mg/kg	Rat	ECHA	EU Method B.1
	dermal	LD50 >2000 mg/kg	Rat	ECHA	84/449/EWG
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 8,16 mg/l	Rat	ECHA	OECD 403

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

**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.



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Safety Data Sheet according to Regulation (EC) Nr. 1272/2008.

Revision date: 26.08.2021/Revision No:1,09

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## SHINE HD Glass Cleaner Concentrate

### Aspiration hazard

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

### Specific effects in experiment on an animal

No information available.

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

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



## SHINE HD Glass Cleaner Concentrate

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-63-0	isopropanol					
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA	OECD 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 9714 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
111-76-2	2-butoxyethanol					
	Acute fish toxicity	LC50 1474 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Acute algae toxicity	ErC50 720 mg/l	96 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 1800 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
1336-21-6	Ammonia					
	Acute fish toxicity	LC50 0,53 mg/l	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 24 mg/l	48 h	Daphnia magna		
105-60-2	epsylon-caprolactam					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oryzias latipes (Ricefish)	ECHA	OECD 203
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
	Algae toxicity	NOEC 1000 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA	OECD 201

### 12.2. Persistence and degradability

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

**SHINE HD Glass Cleaner Concentrate**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-63-0	isopropanol			
	EU Method C.5	53%	5	ECHA
	Readily biodegradable (according to OECD criteria).			
111-76-2	2-butoxyethanol			
	OECD 301B	90,4%	28	ECHA
	Readily biodegradable (according to OECD criteria).			
105-60-2	epsylon-caprolactam			
	OECD 301 C	82%	14	ECHA
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-63-0	isopropanol	0,05
111-76-2	2-butoxyethanol	0,81
1336-21-6	Ammonia	-1,38
105-60-2	epsylon-caprolactam	-0,19

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**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.

**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.



## SHINE HD Glass Cleaner Concentrate

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

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

### Contaminated packaging

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Marine transport (IMDG)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### Air transport (ICAO-TI/IATA-DGR)

- |                                   |  |
|-----------------------------------|--|
| 14.1. UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group:              | No dangerous good in sense of this transport regulation. |

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No special measures are necessary.

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

not applicable



## SHINE HD Glass Cleaner Concentrate

### 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): 10%

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

##### Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

##### National regulatory information

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.

#### Substance/product listed in the following inventories

EU / Schweiz	yes
Taiwan	yes
New Zealand	yes
USA	yes
Canada	yes
Australia	yes
Japan	yes
China	unknown
Korea	yes
Philippines	yes

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 3,7,8,13,15.

#### 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

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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**

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

**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.)