

Multielement standard solution 7 elements in hydrochloric acid approx. 2 mol/l with traces of hydrof									
Revision date: 02.04.2024	Product code: 10322		Page 1 of 13						
SECTION 1: Identification of the substance/mixture and of the company/undertaking									
1.1. Product identifier         Multielement standard solution 7 elements in hydrochloric acid approx. 2 mol/l with traces of hydrof         UFI:       S6KW-H08M-U006-QUE4									
	ubstance or mixture and uses advised a	qainst							
Use of the substance/mixture Laboratory chemicals Industrial uses: Uses of substar	Use of the substance/mixture								
Uses advised against Do not use for private purposes	(household).								
1.3. Details of the supplier of the safe									
Company name: Street: Place:	AnalytiChem GmbH ACD Stempelstraße 6 D-47167 Duisburg								
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290							
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117							
1.4. Emergency telephone       For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,         number:       Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:         1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)									
Further Information This product is a mixture. REACH Registration Number see section 3.									

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

### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008 Met. Corr. 1; H290

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

# Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



# Hazard statements

H290

May be corrosive to metals.

### Precautionary statements P234

Keep only in original packaging.



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### according to Regulation (EC) No 1907/2006

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P390 P406 Absorb spillage to prevent material damage. Store in a corrosion-resistant container with a resistant inner liner.

### 2.3. Other hazards

No data available

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

### 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

#### **Relevant ingredients**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation				
7647-01-0	Hydrochloric acid			5 - < 10 %	
	231-595-7	017-002-01-X	01-2119484862-27		
	Skin Corr. 1B, STOT SE 3; H314 H335				
7664-39-3	hydrofluoric acid %			< 0.01 %	
	231-634-8	009-003-00-1			
	Acute Tox. 1, Acute Tox. 2				
7697-37-2	nitric acid			< 0.01 %	
	231-714-2	007-030-00-3	01-2119487297-23		
	Ox. Liq. 3, Met. Corr. 1, A				

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				
7647-01-0	231-595-7	Hydrochloric acid	5 - < 10 %			
	Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100					
7664-39-3	231-634-8	hydrofluoric acid %	< 0.01 %			
	LC50 = 2240	E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); inhalation: ppm (gases); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg Skin Corr. 1A; H314: Skin Corr. 1B; H314: >= 1 - < 7 Eye Irrit. 2; H319: >= 0,1 - < 1				
7697-37-2	231-714-2	nitric acid	< 0.01 %			
		E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 corr. 1B; H314: >= 5 - < 20				

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

# **General information**

No data available

# After inhalation

Provide fresh air. Call a doctor if you feel unwell.



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### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant

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

No data available

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

# 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

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

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Hydrochloric gas

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Avoid contact with skin, eyes and clothes.

### Additional information

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

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

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

### **General advice**

Corrosive to metals.

# For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.



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

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

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

Requirements for storage rooms and vessels

Keep container tightly closed.

### Further information on storage conditions

Unsuitable container/equipment material: Metal

## 7.3. Specific end use(s)

Laboratory chemicals

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

# 8.1. Control parameters

Revision No: 1,04 - Replaces version: 1,03



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# Occupational exposure limits

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CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7647-01-0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8 h)	
		3	2.5		STEL (15 min)	
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	
7440-31-5	Tin (Metal)	-	2		TWA (8 h)	
7440-33-7	Tungsten metal	-	5		TWA (8 h)	
		-	10		STEL (15 min)	

# **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
7664-39-3	Hydrogen fluoride	Fluoride	2 mg/L	Urine	Prior to shift

### **DNEL/DMEL** values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
7647-01-0 Hydrochloric acid						
Worker DNEL	., long-term	inhalation	local	8 mg/m³		
Worker DNEL	., acute	inhalation	local	15 mg/m³		
Consumer DN	NEL, long-term	inhalation	local	8 mg/m³		
Consumer DN	NEL, acute	inhalation	local	15 mg/m³		
7664-39-3	hydrofluoric acid %					
Worker DNEL	., long-term	inhalation	systemic	1,5 mg/m³		
Worker DNEL	., acute	inhalation	systemic	2,5 mg/m³		
Worker DNEL	., long-term	inhalation	local	1,5 mg/m³		
Worker DNEL	., acute	inhalation	local	2,5 mg/m³		
Consumer DN	NEL, long-term	inhalation	systemic	0,03 mg/m³		
Consumer DN	NEL, acute	inhalation	systemic	0,03 mg/m³		
Consumer DN	NEL, long-term	inhalation	local	0,2 mg/m³		
Consumer DN	NEL, acute	inhalation	local	1,25 mg/m³		
Consumer DN	NEL, long-term	oral	systemic	0,01 mg/kg bw/day		
Consumer DN	NEL, acute	oral	systemic	0,01 mg/kg bw/day		
7440-31-5	tin					
Worker DNEL	., long-term	inhalation	systemic	71 mg/m³		
Worker DNEL, long-term		dermal	systemic	10 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	17 mg/m³		
Consumer DNEL, long-term		dermal	systemic	80 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day		



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### **PNEC** values

CAS No	Substance				
Environmental	Environmental compartment				
7664-39-3 hydrofluoric acid %					
Freshwater	0,89 mg/l				
Marine water	0,089 mg/l				
Freshwater sec	3,38 mg/kg				
Marine sediment		0,338 mg/kg			
Micro-organisms in sewage treatment plants (STP) 51 mg/					
Soil 10,6 mg/					

# 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

### Eye/face protection

Suitable eye protection: Face protection shield goggles.

### 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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

### Skin protection Wear suitable protective clothing. Protective clothing acid-resistant



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Respiratory protection	any at a gradel or mist formatio	-	
	ary at: aerosol or mist formatio	n	
Environmental exposure control			
Do not allow to enter into surfa			
SECTION 9: Physical and chemi	cal properties		
.1. Information on basic physical a	nd chemical properties		
Physical state:	Liquid		
Colour:	colourless		
Odour:	odourless		
Odour threshold:	No data available		
Melting point/freezing point:		No data available	
Boiling point or initial boiling point	and	No data available	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		No data available	
Upper explosion limits:		No data available	
Flash point:		Х	
Auto-ignition temperature:		No data available	
Decomposition temperature:		No data available	
pH-Value:		acidic	
Viscosity / kinematic:		No data available	
Water solubility:		No data available	
Solubility in other solvents			
not determined			
Dissolution rate:		No data available	
Partition coefficient n-octanol/wate	er:	No data available	
Dispersion stability:		No data available	
Vapour pressure:		No data available	
Vapour pressure:		No data available	
Density:		No data available	
Bulk density:		No data available	
Relative vapour density:		No data available	
Particle characteristics:		No data available	
.2. Other information			
Information with regard to physic	cal hazard classes		
Explosive properties			
No data available Self-ignition temperature			
Sell-Ignition temperature Solid:		not applicable	
Gas:		not applicable not applicable	
Oxidizing properties		not applicable	
No data available			
Other safety characteristics			
		No data available	
Evaporation rate:			
Solvent separation test: Solvent content:		No data available No data available	
Solid content:		No data available No data available	
Sublimation point:		No data available	
Softening point:		No data available	
vision No: 1,04 - Replaces version: 1,03	IRL -	en	Print date: 02.04.202



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Pour point: No data available:	No data available						
Viscosity / dynamic:	No data available						
Flow time:	No data available						
Further Information Corrosive to metals							

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Corrosive to metals.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Keep away from: Metal.

The product develops hydrogen in an aqueous solution in contact with metals.

# 10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

## Further information

No data available

# SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

### Acute toxicity

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

### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS NO	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7664-39-3	hydrofluoric acid %						
	oral	ATE	5 mg/kg				
	dermal	ATE	5 mg/kg				
	inhalation vapour	ATE	0,5 mg/l				
	inhalation dust/mist	ATE	0,05 mg/l				
	inhalation (1 h) gas	LC50 ppm	2240	Rat	Study report (1990)	OECD Guideline 403	
7697-37-2	nitric acid						
	inhalation vapour ATE 2,65 mg/l						



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Irritation and corrosivity Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.
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.
<b>STOT-single exposure</b> 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.
Information on likely routes of exposure There are no data available on the mixture itself.
Specific effects in experiment on an animal There are no data available on the mixture itself.
Additional information on tests There are no data available on the mixture itself.
<b>Practical experience</b> There are no data available on the mixture itself.
11.2. Information on other hazards
Endocrine disrupting properties There are no data available on the mixture itself.
Other information There are no data available on the mixture itself.
Further information Irritant
SECTION 12: Ecological information

# 12.1. Toxicity

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



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7647-01-0	Hydrochloric acid						
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus		
7664-39-3	hydrofluoric acid %						
	Acute fish toxicity	LC50	299 mg/l	96 h	Salmo trutta	REACh Registration Dossier	other: U.S Environmental Protection Agen
	Acute algae toxicity	ErC50	43 mg/l	96 h	various algae species	REACh Registration Dossier	Methods not detailed in the review.
	Crustacea toxicity	NOEC	3,7 mg/l	21 d	Daphnia magna	REACh Registration Dossier	The publication is a review article of v
	Acute bacteria toxicity	EC50 mg/l()	2930	3 h	Activated sludge	REACh Registration Dossier	ISO 8192
7697-37-2	nitric acid						
	Acute fish toxicity	LC50 mg/l	1559	96 h	Topeka shiner	Environmental Toxicology and Chemistry,	other: ASTM E729-26
	Fish toxicity	NOEC	268 mg/l	30 d	juvenile Topeka shiner and with juvenile Fathead m	Study report (2009)	Growth tests estimated the test chemical
	Algae toxicity	NOEC mg/l	> 419	10 d	several benthic diatoms; see results	Marine Biology 43:307-315 (1977)	Ten cultures of benthic diatoms were iso
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	Activated sludge	Study report (2008)	OECD Guideline 209

### 12.2. Persistence and degradability

There are no data available on the mixture itself.

# 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
7664-39-3	hydrofluoric acid %	53 - 58	not specified	REACh Registration D

### 12.4. Mobility in soil

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment

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

### 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.

# 12.7. Other adverse effects

Discharge into the environment must be avoided.

### **Further information**

Do not empty into drains.

# **SECTION 13: Disposal considerations**



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13.1. Waste treatment methods

# **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	П
Hazard label:	8
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840
	1010



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Excepted quantity: IATA-packing instructions - Passer IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo: <b>14.5. Environmental hazards</b>	1 L 855 30 L		
ENVIRONMENTALLY HAZARDO	JS: No		
SECTION 15: Regulatory informa	tion		
15.1. Safety, health and environmen	tal regulations/legislation specific for the substance or mixture		
This product is regulated by Re	x XVII): Not subject to 2012/18/EU (SEVESO III) recursors (Regulation (EU) 2019/1148): egulation (EU) 2019/1148: all suspicious transactions, and significant uld be reported to the relevant national contact point.		
National regulatory information			
Water hazard class (D):	1 - slightly hazardous to water		
SECTION 16: Other information			
Abbreviations and acronyms Ox. Liq: Oxidising liquid Met. Corr: Substance or mixtur Acute Tox: Acute toxicity Skin Corr: Skin corrosion STOT SE: Specific target orga ADR: Accord européen sur le t (European Agreement concern IMDG: International Maritime O IATA: International Air Transpo GHS: Globally Harmonized Sys	n toxicity - single exposure ransport des marchandises dangereuses par Route ing the International Carriage of Dangerous Goods by Road) code for Dangerous Goods ort Association stem of Classification and Labelling of Chemicals of Existing Commercial Chemical Substances fied Chemical Substances ice		
	d evaluation method according to Regulation (EC) No 1272/2008 [CLP]		
Classification Procedure			
Met. Corr. 1; H290	On basis of test data		

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

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.



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H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
EUH071	Corrosive to the respiratory tract.

### **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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)