



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 1 of 12

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

#### 1.1. Product identifier

Lintensan

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

##### Use of the substance/mixture

Wipe disinfection and cleaning of surfaces in the kitchen. For professional use.

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

Company name: Lysoform Dr. Hans Rosemann GmbH  
Street: Kaiser-Wilhelm-Straße 133  
Place: D-12247 Berlin  
Telephone: +49 (0)30 77992-0  
Contact person: Wissenschaftlich-Technische Abteilung Berlin  
e-mail: kontakt@lysoform.de  
Internet: www.lysoform.de

Telefax: +49 (0)30 77992-219

Telephone: +49 (0)30 / 77992-216

#### 1.4. Emergency telephone number:

+49 (0)89 19240 (Giftnotruf München Toxikologische Abteilung)

### SECTION 2: Hazards identification

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

##### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Flammable liquid and vapour.

Causes severe skin burns.

Causes serious eye irritation.

May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

Isotridecanol, ethoxylated

didecyldimethylammonium chloride

polyhexamethylene biguinide hydrochloride

Signal word: Danger

##### Pictograms:



##### Hazard statements

H226

Flammable liquid and vapour.

H314

Causes severe skin burns.

H319

Causes serious eye irritation.



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 2 of 12

H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face 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.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P273 Avoid release to the environment.  
P310 In case of accident: Call a doctor immediately.

### 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	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
69011-36-5	Isotridecanol, ethoxylated			5 - < 10 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
7173-51-5	didecyldimethylammonium chloride			5 - < 10 %
	230-525-2	612-131-00-6		
	Acute Tox. 3, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 2; H301 H314 H400 H411			
67-63-0	propan-2-ol; isopropanol			1 - < 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
1802181-67-4	polyhexamethylene biguanide hydrochloride			1 - < 5 %
	Acute Tox. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1B, STOT SE 3, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H330 H302 H318 H317 H335 H400 H410			

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Call a physician immediately. If medical advice is needed, have product container or label at hand.

#### After inhalation

Provide fresh air.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 3 of 12

apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call emergency telephone number.

#### **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**

none

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, Extinguishing powder

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

In case of fire: Nitrogen oxides (NO<sub>x</sub>) Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

#### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### 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**

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment.

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

Absorb with liquid-binding material (e.g. 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

Provide adequate ventilation. To prepare a dilution, always first fill in the water and then add the product.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

##### Further information on handling

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Avoid contact with eyes.

#### **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 dry. Avoid: Frost. Keep out of



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 4 of 12

the reach of children.

### Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.  
Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

none

## 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
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day

#### PNEC values

CAS No	Substance	Value
67-63-0	propan-2-ol; isopropanol	
Freshwater		140.9 mg/l
Marine water		140.9 mg/l
Freshwater sediment		552 mg/l
Marine sediment		552 mg/l
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/l

### 8.2. Exposure controls



#### Protective and hygiene measures

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

#### Eye/face protection

Tightly sealed safety glasses.



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 5 of 12

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time.

Recommendation:

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

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.

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

Not required with good ventilation.

## SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: colourless - light yellow  
Odour: characteristic

#### Test method

pH-Value (at 20 °C): ca. 8 (50 g/l H<sub>2</sub>O)

#### Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: not determined

Flash point: 50 °C DIN 51755

#### Flammability

Solid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

#### Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): ca. 1.0 g/cm<sup>3</sup>

Water solubility: very soluble

#### Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 6 of 12

#### **9.2. Other information**

Solid content: not determined

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

#### **10.1. Reactivity**

Flammable. No hazardous reaction when handled and stored according to provisions.

#### **10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

#### **10.3. Possibility of hazardous reactions**

Flammable. No hazardous reaction when handled and stored according to provisions.

#### **10.4. Conditions to avoid**

Safe handling: see section 7

#### **10.5. Incompatible materials**

No information available.

#### **10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature.

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

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

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

##### **ATEmix tested**

	Dose	Species	Source
LD50, oral	4000 mg/kg	Rat	
LD50, dermal	> 8000 mg/kg	Rat	

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lintensan**

Revision date: 06.12.2017

Product code: LYS631

Page 7 of 12

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69011-36-5	Isotridecanol, ethoxylated				
	oral	ATE 500 mg/kg			
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		OECD 410
	dermal	LD50 3342 mg/kg	Rabbit		
67-63-0	propan-2-ol; isopropanol				
	oral	LD50 5840 mg/kg	Rat		
	dermal	LD50 13900 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 37.5 mg/l	Rat		OECD 403
1802181-67-4	polyhexamethylene biguinide hydrochloride				
	oral	LD50 >400 mg/kg	Rat		OECD 423
	inhalative (4 h) vapour	LC50 mg/l			
	inhalative (4 h) aerosol	LC50 0.322 mg/l	Rat		OECD 403
	inhalative (4 h) gas	LC50 ppm			

**Irritation and corrosivity**

Causes severe skin burns.

Causes serious eye irritation.

Didecyldimethylammoniumchloride:

In case of skin contact: OECD 404 Rabbit 3 min: Irritant

Polyhexamethylenbiguanid-HCl

In case of skin contact: OECD 404 Rabbit - slightly irritant

Risk of serious damage to eyes. OECD 405 Rabbit

**Sensitising effects**

May cause an allergic skin reaction. (polyhexamethylene biguinide hydrochloride)

Didecyldimethylammoniumchloride:

Buehler Test US-EPA Guinea pig: negative.

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

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

Didecyldimethylammoniumchloride:

negative. OECD 471 (Ames test) , Salmonella typhimurium

negative. Gene mutation , CHO-cells

negative. Chromosomal aberrations Test, CHO-cells

negative. Chromosomal aberrations Test oral Rat OECD 475

**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.



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 8 of 12

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

Oncorhynchus mykiss (Rainbow trout) (OECD 203) / 96 h: LC50: 10 ppm; LC0: 4 ppm

Daphnia (based on OECD 202 Part I) / 48 h: LC50: 1.1 ppm

Green algae (based on OECD 201) / 72 h: EC50 24 h = 100 ppm; EC50 48 h = 45 ppm; EC50 72 h = 8.3 ppm

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
69011-36-5	Isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 mg/l	1 - 10	96 h	Cyprinus carpio (Common Carp)	
	Acute algae toxicity	ErC50 mg/l	1 - 10	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	1 - 10	48 h		
	Acute bacteria toxicity	(140 mg/l)			Activated sludge	
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50	0.19 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	0.026	96 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	0.062	48 h	Daphnia magna (Big water flea)	OECD 211
	Fish toxicity	NOEC mg/l	0.032	34 d	Danio rerio	OECD 210
	Crustacea toxicity	NOEC mg/l	0.016	21 d	Daphnia magna (Big water flea)	OECD 211
	Acute bacteria toxicity	(11 mg/l)		3 h	Activated sludge	OECD 209
67-63-0	propan-2-ol; isopropanol					
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 mg/l	9714	48 h	Daphnia magna (Big water flea)	
1802181-67-4	polyhexamethylene biguinide hydrochloride					
	Acute fish toxicity	LC50 mg/l	0.321	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	0.0206	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	0.156	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC mg/l	0.00498	28 d	Pimephales promelas (fathead minnow)	
	Crustacea toxicity	NOEC mg/l	0.00544	21 d	Daphnia magna (Big water flea)	

#### 12.2. Persistence and degradability

The product has not been tested.





# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 9 of 12

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
69011-36-5	Isotridecanol, ethoxylated				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C		>60%	28	
	Readily biodegradable (according to OECD criteria).				
7173-51-5	didecyldimethylammonium chloride				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C		72%	28	
	Readily biodegradable (according to OECD criteria).				
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A		93.3	28	
	OECD 303/ EEC 92/69/V, C10		91%	70	

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropanol	0.05

### 12.4. Mobility in soil

The product has not been tested.

### 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. 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

#### Advice on disposal

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.

#### Waste disposal number of waste from residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

#### Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number:

UN 2924

#### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, propan-2-ol; isopropyl alcohol; isopropanol)



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 10 of 12

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

3

**14.4. Packing group:**

III

Hazard label:

3+8



Classification code:

FC

Special Provisions:

274

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

38

Tunnel restriction code:

D/E

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

UN 2924

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, isopropanol)

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

3

**14.4. Packing group:**

III

Hazard label:

3+8



Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-C

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

UN 2924

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, isopropanol)

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

3

**14.4. Packing group:**

III

Hazard label:

3+8



Special Provisions:

A3 A803

Limited quantity Passenger:

1 L

Passenger LQ:

Y342

Excepted quantity:

E1

IATA-packing instructions - Passenger:

354

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

365

IATA-max. quantity - Cargo:

60 L

**14.5. Environmental hazards**



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 11 of 12

ENVIRONMENTALLY HAZARDOUS: yes



### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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 contaminating class (D): 3 - highly water contaminating  
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 2,4,8,14.

### 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 Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	
Skin Corr. 1; H314	
Eye Irrit. 2; H319	
Skin Sens. 1; H317	
Aquatic Chronic 1; H410	

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

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lintensan

Revision date: 06.12.2017

Product code: LYS631

Page 12 of 12

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
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 data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

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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.)*