



according to Regulation (EC) No 1907/2006

#### **FDT Dachbahnenkleber**

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

#### 1.1. Product identifier

FDT Dachbahnenkleber

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

#### Use of the substance/mixture

adhesives

#### Uses advised against

Only use for the intended purpose.

The product is intended for professional use.

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

Company name: FDT Flachdach Technologie GmbH & Co. KG

Street: Eisenbahnstraße 6-8
Place: D-68199 Mannheim
Telephone: +49 (621) 8504100

Telephone: +49 (621) 8504100 Telefax: +49 (621) 8504200

e-mail: kundenservice@fdt.de

Contact person: Marco Anderer Telephone: +49 (621) 8504563

e-mail: marco.anderer@fdt.de
Internet: http://www.fdt.de

Responsible Department: Arbeitssicherheit und Umweltschutz

1.4. Emergency telephone Poison Control Center (Mayence, GER) +49 (0)6131-19240 (24h - de, en)

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

## 2.1. Classification of the substance or mixture

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause drowsiness or dizziness. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

# Hazardous components which must be listed on the label

methyl acetate ethyl acetate

Diphenylmethanediisocyanate - Isomers & Homologues

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane



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Signal word: Danger

Pictograms:



#### **Hazard statements**

H373

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

## **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.

May cause damage to organs through prolonged or repeated exposure.

P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

water/shower.

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

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

present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with national disposal regulations.

# Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

#### 2.3. Other hazards

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

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

#### 3.2. Mixtures



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#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulati	ion (EC) No. 1272/2008 [CLP]			
79-20-9	methyl acetate			2,5-10 %	
	201-185-2	607-021-00-X			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH066			
141-78-6	ethyl acetate			2,5-10 %	
	205-500-4	607-022-00-5			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH066			
9016-87-9	Diphenylmethanediisocyanate - Isomers & Homologues				
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373				
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
	921-024-6		01-2119475514-35		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411				

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

#### **Further Information**

There is the following note: The classification of "Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane" as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 wt% benzene (EINECS No 200-753-7). If the substance is not classified as a carcinogen, so at least the safety (102) -260-262-301 + 310-331 (Table 3.1) or the S phrases (2) -23-24-62 (Table 3.2) apply. This note applies only to certain complex oil-derived substances in Part 3 of this regulation.

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

#### 4.1. Description of first aid measures

#### **General information**

In case of troubles or persistent symptoms, consult an doctor/physician.

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

## After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician. In case of irregular breathing or respiratory arrest, perform artificial respiration.

#### After contact with skin

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

## After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately. Do NOT induce vomiting. Aspiration hazard.

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

Causes serious eye irritation.





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May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Causes skin irritation. May cause an allergic skin reaction.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer.

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

Treat symptomatically.

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

#### 5.1. Extinguishing media

## Suitable extinguishing media

Extinguishing powder.

## Unsuitable extinguishing media

Water.

High power water jet.

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

Thermal decomposition can lead to harmful gases and vapours.

#### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Do not allow to enter into surface water or drains.

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

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

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 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 precautions: refer to section 8.

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

# Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care.

Avoid the formation of aerosol.

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

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

#### Requirements for storage rooms and vessels

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



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## 7.3. Specific end use(s)

adhesives

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

# 8.1. Control parameters

# **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL
79-20-9	Methyl acetate	200	616		TWA (8 h)	WEL
		250	770		STEL (15 min)	WEL

## **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
141-78-6 ethyl acetate				
Worker DNEL,	acute	inhalation	systemic	1468 mg/m³
Worker DNEL,	long-term	dermal	systemic	63 mg/kg bw/day
Consumer DNE	EL, long-term	dermal	systemic	37 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	734 mg/m³
Consumer DNE	EL, long-term	oral	systemic	4,5 mg/kg bw/day
Consumer DNE	Consumer DNEL, acute		systemic	734 mg/m³
Consumer DNEL, long-term		inhalation	systemic	367 mg/m³
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%	n-hexane		
Worker DNEL,	long-term	dermal		300 mg/kg bw/day
Worker DNEL, long-term		inhalation		2085 mg/m³
Consumer DNEL, long-term		oral		149 mg/kg bw/day
Consumer DNEL, long-term		dermal		149 mg/kg bw/day
Consumer DNEL, long-term		inhalation		447 mg/m³



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#### **PNEC** values

CAS No	Substance	
Environmental	compartment	Value
141-78-6	ethyl acetate	
Freshwater		0,26 mg/l
Marine water 0,026 mg/		0,026 mg/l
Soil		0,24 mg/kg
Freshwater sediment 1,2		1,25 mg/kg
Marine sediment 0,125		0,125 mg/kg
Micro-organisms in sewage treatment plants (STP) 650 r		650 mg/l
Secondary poisoning 200 mg		200 mg/kg

#### 8.2. Exposure controls

## Protective and hygiene measures

Wear personal protection equipment.

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Eye/face protection

Tighty fitting safety glasses with side shields.

#### Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

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.

Recommendation direct, prolonged contact: Protective index 6, penetration time > 480 min, e.g. nitrile rubber 0.4 mm

#### Skin protection

Full cover clothing covering arms and legs.

#### Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.

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

# 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: brown
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not determined

57 °C

-13 °C





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**Flammability** 

Gas: not determined

**Explosive properties** 

The product is not explosive, however, formation of explosive mixtures are possible.

Lower explosion limits: 3,1 vol. %
Upper explosion limits: 16,0 vol. %
Ignition temperature: not determined

**Auto-ignition temperature** 

Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties** 

not determined

Vapour pressure: 228 hPa

(at 20 °C)

Density (at 20 °C):

Water solubility:

Not mixable and/or hard to mix.

Partition coefficient:

not determined

Viscosity / dynamic:
(at 20 °C)

(at 20 °C)

Viscosity / kinematic: not determined

Vapour density: not determined

Solvent content: 12%

9.2. Other information

Solid content: 88%

No further information availible.

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

#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

The product is stable under regular conditions.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Oxidising agent

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to harmful gases and vapours.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## **Acute toxicity**

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



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CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
141-78-6	ethyl acetate						
	oral	LD50	4100 mg/kg	Mouse			
	dermal	LD50	>20000 mg/kg	Rabbit			
9016-87-9	Diphenylmethanediisocyanate - Isor	Diphenylmethanediisocyanate - Isomers & Homologues					
	inhalative vapour ATE 11 mg/l		11 mg/l				
	inhalative aerosol	ATE	1,5 mg/l				
	Hydrocarbons, C6-C7, n-alkanes, is	oalkanes, cy	clics, <5% n-hexa	ane			
oral LD50 >5000 mg/kg Rat		Rat					
	dermal	LD50	>1999 mg/kg	Rabbit			
	inhalative (4 h) vapour	LC50	>23,2 mg/l	Rat			

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (Diphenylmethanediisocyanate - Isomers & Homologues)

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(Diphenylmethanediisocyanate - Isomers & Homologues)

#### STOT-single exposure

May cause drowsiness or dizziness. (methyl acetate), (ethyl acetate), (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

# Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure.

(Diphenylmethanediisocyanate - Isomers & Homologues)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Diphenylmethanediisocyanate - Isomers & Homologues)

## **Aspiration hazard**

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

# **SECTION 12: Ecological information**

# 12.1. Toxicity

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50	165 mg/l	48 h	Daphnia magna	
	Algea toxicity	NOEC	>100 mg/l		Desmodesmus subspicatus.	
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane					
	Acute fish toxicity LC50 >1-<=10 mg/l		96 h			
	Acute crustacea toxicity	EC50	>1-<=10 mg/l	48 h		

#### 12.2. Persistence and degradability

No data available.



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#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

# 12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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

080409

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 adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

150110

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

## 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)

<u>14.1. UN number:</u>	UN 1133
14.2. UN proper shipping name:	Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 33
Tunnel restriction code: D/E



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#### Inland waterways transport (ADN)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L
Excepted quantity: E1

## Marine transport (IMDG)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

Nein

223, 955

Limited quantity:

5 L

E1

EnS:

F-E, S-D

# Air transport (ICAO)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions:A3Limited quantity Passenger:10 LPassenger LQ:Y344Excepted quantity:E1

IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no





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#### 14.6. Special precautions for user

No special precautions known.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

#### **Additional information**

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable

REGULATION (EC) No 850/2004 on persistent organic pollutants: not applicable

REGULATION (EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

## **SECTION 16: Other information**

## Changes

Version 1,00 - Creation - 22.04.2014

Version 1,01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general

revision - 27.07.2015

#### 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)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from



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Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

VwVwS: Administrative Regulation for Water Pollutants

WGK: German Water Hazard Class

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

**DNEL: Derived No Effect Level** 

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value

STOT: Specific Target Organ Toxicity

# Relevant H- and EUH-phrases (Number and full text)

•	evant n- and Eun-pine	ises (Number and full text)
	H225	Highly flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H351	Suspected of causing cancer.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.
	EUH204	Contains isocyanates. May produce an allergic reaction.

#### **Further Information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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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.)