

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### DINITROL 445

Revision date: 11/20/2024

Product code: 5104

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## 1. Identification

### Product identifier

DINITROL 445

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Anti-corrosive coating

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

#### Manufacturer

Company name: DINOL GmbH  
Street: Pyrmonter Strasse 76  
Place: D-32676 Luegde  
Telephone: + 49 (0) 5281 982980  
E-mail: msds@dinol.com  
Contact person: Labor  
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

#### Supplier

Company name: DINOL U.S. Inc.  
Street: 8500 Cotter Street, Lewis Center  
Place: USA-43035 Ohio  
Telephone: 740-548-1656  
E-mail: info@dinolus.com  
Internet: www.dinol.com

Telefax: 740-548-1657

**Emergency phone number:** 3E Company Emergency +1-866-404-4230

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2  
Skin corrosion/irritation: Skin Irrit. 2  
Respiratory or skin sensitization: Skin Sens. 1  
Reproductive toxicity: Repr. 2  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)  
Specific target organ toxicity repeated or prolonged exposure: STOT RE 1  
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

### Label elements

#### 29 CFR Part 1910.1200

**Signal word:** Danger

**Pictograms:**



### Hazard statements

Highly flammable liquid and vapor  
Causes skin irritation  
May cause an allergic skin reaction  
May cause drowsiness or dizziness  
Suspected of damaging fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure

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May cause damage to organs through prolonged or repeated exposure

#### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash water thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves and eye/face protection.  
If on skin: Wash with plenty of water.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Take off contaminated clothing and wash it before reuse.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.  
In case of fire: Use water to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

CAS No	Components	Quantity
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	14.64 %
108-88-3	toluene	9.761 %
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	5.755 %
141-78-6	ethyl acetate	4.428 %
1330-20-7	xylene	4.194 %
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	2.863 %
100-41-4	ethylbenzene	1.417 %
	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	1.417 %
147900-93-4	Fatty acids, C18-unsatd., trimers, compds. with oleylamine	0.2928 %
85711-55-3	Fatty acids, tall-oil, compds. with oleylamine	0.1952 %

### 4. First-aid measures

#### Description of first aid measures

##### General information

If unconscious but breathing normally, place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
In all cases of doubt, or when symptoms persist, seek medical advice.

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**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

**After contact with skin**

Change contaminated clothing.

Wash with plenty of water/Soap.

If skin irritation occurs: Get medical advice/attention.

**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. In case of eye irritation consult an ophthalmologist.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

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

Nausea, Dizziness, Headache.

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

No information available.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water fog.**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

**Special protective equipment and precautions for fire-fighters**

Use water spray/stream to protect personnel and to cool endangered containers.

**Additional information**

Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.

Wear personal protection equipment.

Avoid contact with skin, eyes and clothes.

Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**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.

**Methods and material for containment and cleaning up****For containment**

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

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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.

**For cleaning up**

Provide adequate ventilation.

Clear contaminated areas thoroughly.

Do not rinse down with water.

**Other information**

No information available.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Vapours are heavier than air and will spread at floor level.

Vapours may form explosive mixtures with air.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Remove contaminated, saturated clothing immediately.

Do not breathe gas/vapour/aerosol.

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

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

Keep container dry.

Keep away from heat. Protect from direct sunlight.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Strong acid, strong alkalis

**8. Exposure controls/personal protection****Control parameters**

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### Exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	PEL
		400	1400		TWA (8 h)	REL
		400	1440		TWA (8 h)	ACGIH-2024
100-41-4	Ethyl benzene	100	435		TWA (8 h)	PEL
		100	435		TWA (8 h)	REL
		125	545		STEL (15 min)	REL
100-41-4	Ethyl benzene	20			TWA (8 h)	ACGIH-2024
14807-96-6	Talc (containing no asbestos and less than 1% quartz) (resp)	-	2		TWA (8 h)	REL
14807-96-6	Talc (containing no asbestos) respirable dust	706 mp/m <sup>3</sup>	-		TWA (8 h)	PEL
14807-96-6	Talc containing no asbestos fibers (respirable fraction)		2		TWA (8 h)	ACGIH-2024
108-88-3	Toluene	200	-		TWA (8 h)	PEL
		C 300	-		Ceiling	PEL
		500	-		Peak (10 min)	PEL
108-88-3	Toluene	100	375		TWA (8 h)	REL
		150	560		STEL (15 min)	REL
108-88-3	Toluene	20	-		TWA (8 h)	ACGIH-2024
1330-20-7	Xylene: mixed isomers	20			TWA (8 h)	ACGIH-2024
1330-20-7	Xylenes (o-,m-,p-isomers)	100	435		TWA (8 h)	PEL

### Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
108-88-3	TOLUENE	Toluene	0.02 mg/L	blood	Prior to last shift of workweek
1330-20-7	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
100-41-4	ETHYLBENZENE	Sum of mandelic acid and phenylglyoxylic acid (creatinine)	0.15 g/g	urine	End of shift

### Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

##### Eye/face protection

Eye glasses with side protection (EN 166)

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#### Hand protection

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber), Breakthrough time::

PVA (Polyvinyl alcohol), Breakthrough time::

NBR (Nitrile rubber), Breakthrough time::

Butyl caoutchouc (butyl rubber) Breakthrough time::

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 have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

#### Skin protection

Wear anti-static footwear and clothing

#### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

gas filtering equipment (EN 141), Filter material/medium: A/P2

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	black	
Odor:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		> 77 °C
Flammability		
Solid/liquid:		not applicable
Lower explosion limits:		0,8 vol. %
Upper explosion limits:		7,7 vol. %
Flash point:		- 4 °C
Auto-ignition temperature:		> 200 °C
Decomposition temperature:		not determined
pH-Value:		not applicable
Viscosity / kinematic:		not determined
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapor pressure:		61 hPa
(at 20 °C)		
Density (at 20 °C):		1,14 - 1,18 g/cm <sup>3</sup>
Relative vapour density:		not determined

### Other information

#### Information with regard to physical hazard classes

Explosive properties

not determined

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

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Oxidizing properties  
not determined

#### Other safety characteristics

Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	43,6 %
Solid content:	55-59 %
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic: (at 20 °C)	900 - 1100 mPa·s

#### Further Information

No information available.

## 10. Stability and reactivity

#### Reactivity

No hazardous reaction when handled and stored according to provisions.

#### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

#### Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

#### Conditions to avoid

Keep away from heat.

#### Incompatible materials

No information available.

#### Hazardous decomposition products

Carbon monoxide

## 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		
108-88-3	toluene				
	oral	LD50 5580 mg/kg	Rat		
	dermal	LD50 12124 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 31 mg/l	Rat		
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)				
	oral	LD50 >15000 mg/kg	Rat		
	dermal	LD50 >3400 mg/kg	Rat		
141-78-6	ethyl acetate				
	oral	LD50 5620 mg/kg	Rat		
	dermal	LD50 >20000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 50 mg/l	Rat		
1330-20-7	xylene				
	oral	LD50 8700 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 10-20 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 5000 mg/l	Rat		
100-41-4	ethylbenzene				
	oral	LD50 3500 mg/kg	Rat	GESTIS	
	dermal	LD50 15400 mg/kg	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified				
	oral	LD50 3492 mg/kg	Rat		



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	dermal	LD50 mg/kg	>3160	Rabbit		
	inhalation vapour	LC50 mg/l	>6193	Rat		
147900-93-4	Fatty acids, C18-unsatd. , trimers, compds. with oleylamine					
	oral	LD50 mg/kg	> 1570	Rat		
85711-55-3	Fatty acids, tall-oil, compds. with oleylamine					
	oral	LD50 mg/kg	> 2000	Rat		

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitizing effects

May cause an allergic skin reaction (Fatty acids, C18-unsatd. , trimers, compds. with oleylamine; Fatty acids, tall-oil, compds. with oleylamine)

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

Suspected of damaging fertility or the unborn child (toluene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

#### Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness

#### Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))

May cause damage to organs through prolonged or repeated exposure

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Talc not containing asbestos or asbestiform fibres (CAS 14807-96-6) is listed in group 3. Toluene (CAS 108-88-3) is listed in group 3. Xylenes (CAS 1330-20-7) is listed in group 3. Ethylbenzene (CAS 100-41-4) is listed in group 2B.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

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

#### Information on other hazards

##### Endocrine disrupting properties

Endocrine disrupting potential No information available.

#### Further information

There are no data available on the preparation/mixture itself.

## 12. Ecological information

#### Persistence and degradability

There are no data available on the mixture itself.

#### Bioaccumulative potential

There are no data available on the mixture itself.

#### Mobility in soil

There are no data available on the mixture itself.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meet the criteria.

#### Other adverse effects

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No information available.

#### Further information

There are no data available on the preparation/mixture itself.  
Do not allow to enter into surface water or drains.

### 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. No discharge of substance into waste water

List of proposed waste codes/waste designations in accordance with EWC:

##### Contaminated packaging

Remove according to the regulations.

### 14. Transport information

#### U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 1139

Proper shipping name:

Coating solution ( includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining )

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3



#### Marine transport (IMDG)

UN number or ID number:

UN 1139

UN proper shipping name:

Coating solution

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3



Marine pollutant:

no

Special Provisions:

-

Limited quantity:

5 L

EmS:

F-E, S-E

#### Other applicable information (marine transport)

E2

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

UN number or ID number:

UN 1139

UN proper shipping name:

COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under-coating, drum or barrel lining)

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3

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Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

#### Other applicable information (air transport)

E2

Passenger-LQ: Y341

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

Warning: Flammable liquids

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

### 15. Regulatory information

#### U.S. Regulations

##### National Inventory TSCA

Substance/product listed in the following inventories: TSCA

##### National regulatory information

###### SARA Section 304 CERCLA:

Toluene (108-88-3): Reportable quantity = 1,000 (454) lbs. (kg)  
 Ethyl acetate (141-78-6): Reportable quantity = 5,000 (2270) lbs. (kg)  
 Xylene (mixed isomers) (1330-20-7): Reportable quantity = 100 (45.4) lbs. (kg)  
 Ethylbenzene (100-41-4): Reportable quantity = 1,000 (454) lbs. (kg)

###### SARA Section 311/312 Hazards:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (-): Fire hazard, Immediate (acute) health hazard  
 Toluene (108-88-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard  
 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (-): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard  
 Ethyl acetate (141-78-6): Fire hazard, Immediate (acute) health hazard  
 Xylene (mixed isomers) (1330-20-7): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard  
 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (-): Fire hazard, Immediate (acute) health hazard  
 Ethylbenzene (100-41-4): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard  
 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified (-): Fire hazard, Immediate (acute) health hazard  
 Fatty acids, C18-unsatd., trimers, compds. with oleylamine (147900-93-4): Immediate (acute) health hazard, Delayed (chronic) health hazard  
 Fatty acids, tall-oil, compds. with oleylamine (85711-55-3): Immediate (acute) health hazard, Delayed (chronic) health hazard

###### SARA Section 313 Toxic release inventory:

Toluene (108-88-3): De minimis limit = 1.0 %, Reportable threshold = Standard  
 Xylene (mixed isomers) (1330-20-7): De minimis limit = 1.0 %, Reportable threshold = Standard  
 Ethylbenzene (100-41-4): De minimis limit = 0.1 %, Reportable threshold = Standard

###### Clean Air Act Section 112(b):

Toluene (108-88-3), Xylene (mixed isomers) (1330-20-7), Ethylbenzene (100-41-4)

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#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Toluene (developmental); Ethylbenzene (cancer); Carbon black (airborne, unbound particles of respirable size) (cancer); Toluene (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

#### 16. Other information

##### Changes

Revision date: 11/20/2024

Revision No: 2,8

This data sheet contains changes from the previous version in section(s): 8,16.

##### 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%

##### Other data

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.)*