

DINITROL 3642 W

Revision date: 17.04.2024

Product code: 21616

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

1.1. Product identifier

DINITROL 3642 W

UFI:

XDN9-3MJH-Y00T-T29V

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

Use of the substance/mixture

Anti-corrosive coating

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+ 49 (0) 5281 982980	Telefax: + 49 (0) 5281 9829860
E-mail:	msds@dinol.com	
Contact person:	Labor	
Responsible Department:	msds@dinol.com	
1.4. Emergency telephone	Giftnotruf Berlin: +49 30 30686 7	00 (Beratung in Deutsch und Englisch)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

Warning

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Signal word: Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take action to prevent static discharges.
Wear protective gloves/protective clothing and eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Store in a well-ventilated place. Keep cool.



according to UK REACH Regulation

DINITROL 3642 W Product code: 21616 Revision date: 17.04.2024 Page 2 of 13 P405 Store locked up. Special labelling of certain mixtures EUH066 Repeated exposure may cause skin dryness or cracking. FUH208 Contains calcium sulfonate. May produce an allergic reaction. Restricted to professional users. Labelling of packages where the contents do not exceed 125 ml Warning Signal word: Pictograms: 2.3. Other hazards Hydrocarbons : This substance does not meet the criteria for classification as CMR category 1A or 1B

Hydrocarbons : This substance does not meet the criteria for classification as CMR category 1A or 1E according to CLP. (< 0,1 % Benzene)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Hydrocarbons, C9-C11, n-alkanes,	isoalkanes, cyclics, <2% aromatics		50 - < 55 %
	919-857-5	01-2119463258-33		
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066			
61789-86-4	calcium sulfonate			1 - < 5 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1B; H317			
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether			< 1 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			

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	
	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	50 - < 55 %
inhalation: LC50 = 5000 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
61789-86-4	263-093-9	263-093-9 calcium sulfonate	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5000 mg/kg_Skin Sens. 1B; H317: >= 10 - 100		
111-76-2	203-905-0	2-butoxyethanol; ethylene glycol monobutyl ether	< 1 %
inhalation: ATE 3 mg/l (vapours); oral: ATE 1200 mg/kg			

Further Information

Hydrocarbons meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

SECTION 4: First aid measures

4.1. Description of first aid measures



according to UK REACH Regulation

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General information

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

After inhalation

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

After contact with skin

Change contaminated clothing.

After contact with skin, wash immediately with plenty of water and soap.

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. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately. Put victim at rest, cover with a blanket and keep warm.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Extinguishing powder. Water spray jet alcohol resistant foam.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Personal precautions, protective equipment and emergency procedures. Avoid contact with skin, eyes and clothes.

For emergency responders

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

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. 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



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For containment

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

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.

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 as well as local exhaustion at critical locations. Use only outdoors or in a well-ventilated area.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, drink and animal feedingstuffs. 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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special measures are necessary.

Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed. Keep cool. Protect from sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL



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Biological Monitoring Guidance Values (EH40)

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

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes	, cyclics, <2% aromatics	·	
Consumer DN	NEL, long-term	oral	systemic	125 mg/kg bw/day
Worker DNEL	_, long-term	dermal	systemic	208 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	systemic	871 mg/m³
Consumer DN	NEL, long-term	inhalation	systemic	185 mg/m³
61789-86-4	calcium sulfonate		·	
Worker DNEL	_, long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL	_, long-term	dermal	local	1,03 mg/cm ²
Consumer D	NEL, long-term	inhalation	systemic	2,9 mg/m³
Consumer DN	NEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DN	NEL, long-term	oral	systemic	0,8333 mg/kg bw/day
Worker DNEL	_, long-term	inhalation	systemic	11,75 mg/m³
111-76-2	2-butoxyethanol; ethylene glycol monobutyl et	her		
Consumer DN	NEL, acute	oral	systemic	13,4 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	3,2 mg/kg bw/day
Worker DNEL	_, long-term	dermal	systemic	75 mg/kg bw/day
Consumer DN	NEL, acute	dermal	systemic	44,5 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	38 mg/kg bw/day
Worker DNEL	_, acute	inhalation	local	246 mg/m ³
Worker DNEL	_, long-term	inhalation	systemic	98 mg/m³
Consumer DN	NEL, acute	inhalation	systemic	633 mg/m³
Worker DNEL	_, acute	inhalation	systemic	633 mg/m³
Consumer DN	NEL, acute	inhalation	local	123 mg/m³
Consumer DN	NEL, long-term	inhalation	systemic	49 mg/m³



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PNEC values

CAS No	Substance	
Environmenta	l compartment	Value
61789-86-4	calcium sulfonate	
Freshwater		1 mg/l
Marine water 1 r		1 mg/l
Freshwater se	ediment	226000000 mg/kg
Marine sedim	ent	226000000 mg/kg
Secondary poisoning		16667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg

8.2. 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 (DIN EN 166)

Hand protection

Recommended glove articles : NBR (Nitrile rubber) - (> = 0,12 mm), Breakthrough time:: 480 min. 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	light brown
Odour:	characteristic
Odour threshold:	not determined

Melting point/freezing point:
Boiling point or initial boiling point and
boiling range:

Test method

not determined 154-193 °C



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Flammability:	not determined			
Lower explosion limits:	0,6 vol. %			
Upper explosion limits:	7 vol. %			
Flash point:	41 °C			
Auto-ignition temperature:	> 200 °C			
Decomposition temperature:	not determined			
pH-Value:	The study does not need to be			
	conducted because the substance is			
	known to be insoluble in water.			
Viscosity / kinematic:	not determined			
Water solubility:	Immiscible			
Solubility in other solvents				
not determined				
Partition coefficient n-octanol/water:	not determined			
Vapour pressure:	3 hPa			
(at 20 °C) Vapour pressure:	13 hPa			
(at 50 °C)	15 IF a			
Density (at 20 °C):	0.85 g/cm ³	DIN 51757		
Relative vapour density:	not determined			
Particle characteristics:	not applicable			
9.2. Other information				
Information with regard to physical hazard classe	S			
Explosive properties				
not determined				
Sustaining combustion:	No data available			
Oxidizing properties				
not determined				
Other safety characteristics				
Solvent content:	46,7 %			
Solid content:	53,2 %			
Softening point:	not determined			
Viscosity / dynamic: (at 20 °C)	190 mPa·s			
Further Information				
No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

<u>10.4. Conditions to avoid</u> No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

Carbon monoxide



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DINOL GmbH

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

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

Acute toxicity

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

ATEmix tested

	Dose	Species	Source
LC50, inhalation (vapour) (4 h)	> 391 mg/l		

ATEmix calculated

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C9-C11, r	n-alkanes, isoalkane	s, cyclics, <2% aroma	atics	
	oral	LD50 > 500 mg/kg	0 Rat		
	dermal	LD50 > 500 mg/kg	0 Rabbit		
	inhalation (4 h) vapour	LC50 5000 I	mg/I Rat		
61789-86-4	calcium sulfonate				
	oral	LD50 5000 mg/kg	Rat		
	dermal	LD50 > 200 mg/kg	0 Rat		
111-76-2	2-butoxyethanol; ethylene	e glycol monobutyl e	ether		
	oral	ATE 1200 mg/kg			
	inhalation vapour	ATE 3 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

Sensitising effects

Based on available data, the classification criteria are not met. Contains calcium sulfonate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

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

No information available.



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Specific effects in experiment on an animal

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

Additional information on tests

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

Practical experience

No further relevant information available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.

Other information

No further relevant information available.

Further information

No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
111-76-2	2-butoxyethanol; ethylene	glycol monobutyl ether			
	Acute fish toxicity	LC50 1490 mg/l	96 h Lepomis macrochirus		

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% arol	natics		
		80%		
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether	0,81 (25°C)

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 UK REACH.

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

No further relevant information available.

Further information

There are no data available on the mixture itself.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 1139
14.2. UN proper shipping name:	COATING SOLUTION
<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	111
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1139
14.2. UN proper shipping name:	Coating solution
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3
	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1139
14.2. UN proper shipping name:	COATING SOLUTION
14.3. Transport hazard class(es):	3



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14.4. Packing group: Hazard label:		
Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR)	955 5 L E1 F-E, S-E	
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	UN 1139 COATING SOLUTION 3 III 3	
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	A3 10 L Y344 E1 355 60 L 366 220 L	
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	Νο	
14.6. Special precautions for userWarning Flammable liquids14.7. Maritime transport in bulk according to not applicablenot applicableOther applicable information	to IMO instruments	
Hazchem code: SECTION 15: Regulatory information	•3Y	
	ulations/legislation specific for the substance or m	<u>iixture</u>
EU regulatory information Restrictions on use (REACH, annex XVII) Entry 3, Entry 40, Entry 75	:	

Entry 3, Entry 40, Entry 75	
Directive 2004/42/EC on VOC in	46,75 %
paints and varnishes:	397,4 g/l
Information according to Directive	P5c FLAMMABLE LIQUIDS
2012/18/EU (SEVESO III):	

Additional information

Observe in addition any national regulations! Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information



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Employment restrictions:	Observe restrictions to employment for juveniles acc work protection guideline' (94/33/EC). Observe emp under the Maternity Protection Directive (92/85/EEC nursing mothers.	ployment restrictions
Water hazard class (D):	1 - slightly hazardous to water	
Additional information		
This mixture contains the follow Candidate List according to Art	ving substances of very high concern (SVHC) which are incluc icle 59 of REACH: none	led in the

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,11,15.

Abbreviations and acronyms

Flam. Liq: Flammable liquids	
Acute Tox: Acute toxicity	
Asp. Tox: Aspiration hazard	
Skin Irrit: Skin irritation	
Eye Irrit: Eye irritation	
Skin Sens: Skin sensitisation	
STOT SE: Specific target organ toxicity - single exposure	
ADR: Accord européen sur le transport des marchandises dangereuses par Route	
(European Agreement concerning the International Carriage of Dangerous Goods by Ro	ad)
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 GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains calcium sulfonate. May produce an allergic reaction.

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



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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.)