

according to UK REACH Regulation

DINITROL 3	3650
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Revision date: 30.04.2025

Product code: 21633

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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier **DINITROL 3650** UFI: N84A-NMY6-Y00E-7441 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 Manufacturer 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 Supplier Company name: Leading Solvent Supplies Limited Street: Marston Business Park, Rudgate Place: GB Tockwith. York YO26 7QF E-mail: enquiries@leading-solvents.co.uk Internet: www.leading-solvents.co.uk 1.4. Emergency telephone Giftnotruf Berlin: +49 30 30686 700 (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 Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

Danger

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 H304 Flammable liquid and vapour. May be fatal if swallowed and enters airways.

DINITROL 3650 Revision date: 30.04.2025 Product code: 21633 Page 2 of 13 H336 May cause drowsiness or dizziness. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. Take action to prevent static discharges. P243 P280 Wear protective gloves and eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P403+P235 Store in a well-ventilated place. Keep cool. Special labelling of certain mixtures EUH066 Repeated exposure may cause skin dryness or cracking. EUH208 Contains calcium sulfonate. May produce an allergic reaction. Restricted to professional users. Labelling of packages where the contents do not exceed 125 ml Signal word: Danger **Pictograms:**

Hazard statements

H304

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics				
	919-857-5		01-2119463258-33		
	Flam. Liq. 3, STOT SE 3, Asp. Tox				
61789-86-4	calcium sulfonate			1 - < 5 %	
	263-093-9		01-2119488992-18		
	Skin Sens. 1B; H317				
111-76-2	-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.



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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			
	inhalation: LC50 = > 5000 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg			
61789-86-4	263-093-9	calcium sulfonate	1 - < 5 %	
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

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.

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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

Provide adequate ventilation.

Wear personal protection equipment.

Avoid contact with skin, eyes and clothes.

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

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

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

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

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.



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Hints on joint storage

Not required.

Further information on storage conditions

Keep container tightly closed.

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

Biological Monitoring Guidance Values (EH40)

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



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Hydrocarbons, C9-C11, n-alkanes, isoa	alkanes, cyclics, <2% aromatics		
Consumer DN	IEL, long-term	oral	systemic	125 mg/kg bw/day
Worker DNEL	., long-term	dermal	systemic	208 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	systemic	125 mg/kg bw/day
Worker DNEL	, long-term	inhalation	systemic	871 mg/m³
Consumer DN	IEL, 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 DN	IEL, long-term	inhalation	systemic	2,9 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	1,667 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	local	0,513 mg/cm ²
Consumer DN	IEL, 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 mono	butyl ether		
Consumer DN	IEL, acute	oral	systemic	13,4 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	3,2 mg/kg bw/day
Worker DNEL	., long-term	dermal	systemic	75 mg/kg bw/day
Consumer DN	IEL, acute	dermal	systemic	44,5 mg/kg bw/day
Consumer DN	IEL, 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	IEL, acute	inhalation	systemic	633 mg/m³
Worker DNEL	., acute	inhalation	systemic	633 mg/m³
Consumer DN	IEL, acute	inhalation	local	123 mg/m ³
Consumer DN	IEL, long-term	inhalation	systemic	49 mg/m³

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PNEC values

CAS No	Substance			
Environmental compartment Value				
61789-86-4	calcium sulfonate			
Freshwater 1 mg/l				
Marine water 1 mg/l				
Freshwater se	ediment	226000000 mg/kg		
Marine sedim	226000000 mg/kg			
Secondary poisoning 16667 mg/k				
Micro-organisms in sewage treatment plants (STP) 10		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 (EN 166)

Hand protection

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

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

Thickness of the glove material : > 0,12 mm

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:	beige
Odour:	characteristic
Odour threshold:	not determined

Melting point/freezing point:

Test method

not determined

Revision date: 30.04.2025 Product code: 21633 Page 8 of 13 Boiling point or initial boiling point and boiling range: Flammability: not determined Lower explosion limits: 0,6 vol. % Upper explosion limits: 7 vol. % Upper explosion limits: 7 vol. % Upper explosion limits: 7 vol. % Auto-ignition temperature: 0.6 vol. % Decomposition temperature: 0.6 vol. % Decomposition 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 Vater solubility in other solvents not determined Partition coefficient n-octanol/water: 13 hPa (at 20 °C) 0.83 g/cm ³ Vapour pressure: 3 hPa (at 50 °C) 0.83 g/cm ³ Density (at 20 °C): 0.83 g/cm ³ Relative vapour density: not determined Particle characteristics: not applicable Sustained combustibility: No data available Oxidizing properties 54.9 % Soldiedtermined 45.9 % Soldiedtermined 45.9 % Soldie content: 45.9 % <tr< th=""><th></th><th>DINITROL 3650</th><th></th></tr<>		DINITROL 3650	
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(at 20 °C) Further Information			
Further Information		10 1117 4:5	
	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.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

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10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

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

ATEmix tested

	Dose	Species	Source
LC50, inhalation (vapour) (4 h)	> 256 mg/l		

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation dust/mist) > 12,5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C9-C11, r	n-alkanes, isoalkanes, o	cyclics, <2% aromatics		
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 5000 mg/l	Rat		
61789-86-4	calcium sulfonate				
	oral	LD50 5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
111-76-2	2-butoxyethanol; ethylene glycol monobutyl 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

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

No information available.



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Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. 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.

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% aromatics			
		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.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1139 COATING SOLUTION 3 III 3
Classification code: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:	F1 5 L E1 3 30 D/E
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1139 Coating solution 3 III 3
Classification code: Limited quantity: Excepted quantity:	F1 5 L E1
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1139 COATING SOLUTION 3 III 3
Marine pollutant: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u>	no 955 5 L E1 F-E, S-E UN 1139
Devicies Net 4.5. Devleters consistent 4.4	



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14.2. UN proper shipping name:	COATING SOLUTION				
14.3. Transport hazard class(es):	3				
14.4. Packing group:	III				
Hazard label:	3				
Special Provisions:	A3				
Limited quantity Passenger:	10 L				
Passenger LQ:	Y344				
Excepted 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				
<u>14.6. Special precautions for user</u> Warning Flammable liquids					
14.7. Maritime transport in bulk according to	o IMO instruments				
not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture				
EU regulatory information					
Restrictions on use (REACH, annex XVII):					
Entry 3, Entry 40, Entry 75					
Directive 2004/42/EC on VOC in	54,90 %				
paints and varnishes:	455,7 g/l				
Information according to Directive	P5c FLAMMABLE LIQUIDS				
2012/18/EU (SEVESO III):					
Additional information					
Observe in addition any national regula Directive 98/24/EC of 7 April 1998 on t chemical agents at work	ations! he protection of the health and safety of workers from the risks related to				
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.				
Water hazard class (D):	1 - slightly hazardous to water				
Additional information					
This mixture contains the following sub Candidate List according to Article 59 of	estances of very high concern (SVHC) which are included in the of REACH: none				
15.2. Chemical safety assessment	-				
For this substance a chemical safety assessment has not been carried out.					
SECTION 16: Other information					
Changes					



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

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 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 GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
STOT SE 3; H336	Calculation method
Asp. Tox. 1; H304	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 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.)