

according to UK REACH Regulation

#### **DINITROL 3650 IQ**

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

#### 1.1. Product identifier

DINITROL 3650 IQ

UFI: CA4A-5MNM-800W-WFQ3

#### 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 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 Asp. Tox. 1; H304 STOT SE 3: H336

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### **GB CLP Regulation**

#### Hazard components for labelling

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

Signal word: Danger

Pictograms:







### **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

#### **Precautionary statements**

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

smoking.

P243 Take action to prevent static discharges.

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



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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	Chemical name		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)		•	
	Hydrocarbons, C9-C11, n-alkanes,	isoalkanes, cyclics, <2% aromatics		55 - < 60 %
	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	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 Irr	it. 2, Eye Irrit. 2; H331 H302 H315 H	319	

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

Specific Conc. Limits. M-factors and ATE

Specific Cor	ic. Lillins, ivi-la	Ctors and ATE			
CAS No	EC No	Chemical name			
	Specific Conc	Limits, M-factors and ATE			
	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	55 - < 60 %		
	inhalation: LC mg/kg	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	-905-0 2-butoxyethanol; ethylene glycol monobutyl ether			
	inhalation: AT	E 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)).



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#### **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.

#### **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.

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#### 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.

#### 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



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# **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	urine	Post shift

### **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 <sup>2</sup>
Consumer DN	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 <sup>2</sup>
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 eth	er		
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/m³
Worker DNEL	., long-term	inhalation	systemic	98 mg/m³
Consumer DN	NEL, acute	inhalation	systemic	633 mg/m³
Worker DNEL		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	compartment	Value		
61789-86-4	calcium sulfonate			
Freshwater 1 mg		1 mg/l		
Marine water		1 mg/l		
Freshwater sediment		226000000 mg/kg		
Marine sediment		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

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

# Eye/face protection

Eye glasses with side protection (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:

Colour:

Odour:

Odour threshold:

Liquid
beige
characteristic
not determined

**Test method** 

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

154 - 193 °C

boiling range:



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Flammability: not determined Lower explosion limits: 0,6 vol. % Upper explosion limits: 7 vol. %

Flash point: 41 °C DIN 53213

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: not applicable

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)

Density (at 20 °C): 0,83 g/cm³ DIN 51757

Relative vapour density: not determined Particle characteristics: not applicable

### 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties

not determined

Sustaining combustion: No data available

Oxidizing properties not determined

Other safety characteristics

Solvent content: 54,9 %
Solid content: 45,9 %
Softening point: not determined
Viscosity / dynamic: 18 mPa·s

(at 20 °C)

#### **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.

# 10.4. Conditions to avoid

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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### **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) > 5 mg/l

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
	Hydrocarbons, C9-C11, n	-alkanes, iso	alkanes, cy	clics, <2% aromatics			
	oral	LD50 mg/kg	> 5000	Rat			
	dermal	LD50 mg/kg	> 5000	Rabbit			
	inhalation (4 h) vapour	LC50	5000 mg/l	Rat			
61789-86-4	calcium sulfonate						
	oral	LD50 mg/kg	5000	Rat			
	dermal	LD50 mg/kg	> 2000	Rat			
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether						
	oral	ATE 1200 n	ng/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.

#### Specific effects in experiment on an animal

No information available.

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#### 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**

#### 13.1. Waste treatment methods



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#### **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)

14.1. UN number or ID number: UN 1139

14.2. UN proper shipping name: COATING SOLUTION

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



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/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:
 III

 Hazard label:
 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):314.4. Packing group:IIIHazard label:3



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

EmS:

no

955

L

5 L

E1

EnS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1139

14.2. UN proper shipping name: COATING SOLUTION



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



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y344

Excepted quantity:

E1

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

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning Flammable liquids

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

#### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/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 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

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

#### **Additional information**

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

# 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): 2,9,11,15.



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#### 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
Asp. Tox. 1; H304	Calculation method
STOT SE 3; H336	Calculation method

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

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.)