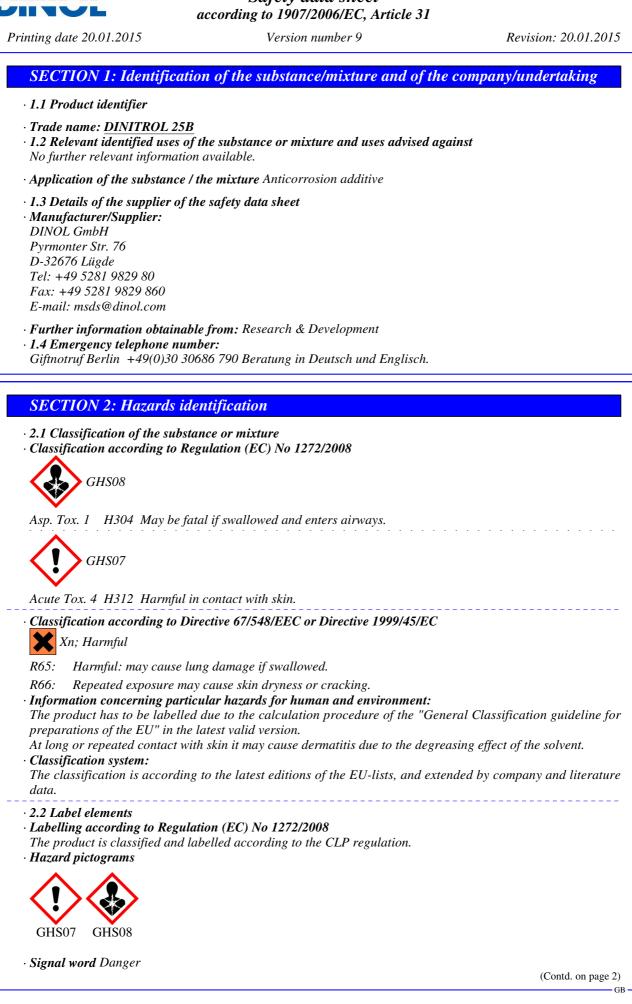


Safety data sheet





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Trade name: DINITROL 25B

 Hazard-determining components of labelling: Naphtha (petroleum), hydrotreated heavy 2-butoxyethanol Hazard statements H312 Harmful in contact with skin. H304 May be fatal if swallowed and enters airways. Precautionary statements P280 Wear protective gloves/protective clothing P301+P310 IF SWALLOWED: Immediately call a PO P331 Do NOT induce vomiting. P322 Specific measures (see on this label). P405 Store locked up. P501 Dispose of contents/container in accuregulations. Additional information: EUH066 Repeated exposure may cause skin dryness of 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 	ways. clothing/eye protection. all a POISON CENTER/ doctor.
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regulations. Additional information: EUH066 Repeated exposure may cause skin dryness o 2.3 Other hazards Results of PBT and vPvB assessment	in accordance with local/regional/national/internation
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EUH066 Repeated exposure may cause skin dryness o 2.3 Other hazards Results of PBT and vPvB assessment	
2.3 Other hazards Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	yness or cracking.
PBT: Not applicable.	
vPvB: Not applicable.	

• Dangerous components:		
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	50-<100%
EC number: 918-481-9	🗙 Xn R65	
Reg.nr.: 01-2119457273-39	<u>R6</u> 6	
	🚸 Asp. Tox. 1, H304	
CAS: 111-76-2	2-butoxyethanol	1-<5%
EINECS: 203-905-0	🗙 Xn R20/21/22; 🗙 Xi R36/38	
Reg.nr.: 01-2119475108-36	🗘 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;	
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
• Additional information: For	the wording of the listed risk phrases refer to section 16.	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · After skin contact: If skin irritation continues, consult a doctor.
- · After eye contact:

*

*

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- 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 agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.
- $\cdot \textit{Additional information Cool endangered receptacles with water spray}.$

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin, eyes and clothes.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Use only in well ventilated areas.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

	n purumeters	
• Ingredien	ts with limit values that require monitoring at the	workplace:
111-76-22	2-butoxyethanol	
	rt-term value: 246 mg/m³, 50 ppm	
	g-term value: 123 mg/m³, 25 ppm	
Sk, I	BMGV	
· DNELs		
111-76-22	2-butoxyethanol	
Oral	Acute - systemic effects, general population	13.4 mg/kg bw/day (General Population)
	Long-term - systemic effects, general population	3.2 mg/kg bw/day (General Population)
Dermal	Acute - systemic effects, general population	44.5 mg/kg (General population)
	Long-term - systemic effects, general population	38 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	75 mg/kg bw/day (Worker)
Inhalative	Acute - Local effects, worker	246 mg/m3 (Worker)
	Acute - local effects, general population	123 mg/m3 (General Population)
	Acute - systemic effects, general population	633 mg/m3 (General Population)
	Acute - systemic effects, worker	633 mg/m3 (Worker)

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				(Contd. of page
	Long-term - systemic effects, general p	population	49 mg/m3 (General Population)	
	Long-term - systemic effects, worker		98 mg/m3 (Worker)	
· PNECs			<u> </u>	
111-76-	-2 2-butoxyethanol			
Aquatic	c compartment - freshwater	8.8 mg/L	(not specified)	
Aquatic	compartment - marine water	0.88 mg/L	(not specified)	
Aquatic	c compartment - sediment in freshwater	8.14 mg/k	g sed dw (not specified)	
Aquatic	c compartment - sediment in marine water	3.46 mg/k	g sed dw (not specified)	
Sewage	treatment plant		(not specified)	
Terresti	rial compartment - soil	2.8 mg/kg	dw (not specified)	
• Ingredi	ents with biological limit values:			
-	-2 2-butoxyethanol			
	240 mmol/mol creatinine			
	Medium: urine			
	Sampling time: post shift			
	Parameter: butoxyacetic acid			
· Additio	nal information: The lists valid during the	e making w	vere used as basis.	
	oosure controls	Ũ		
	al protective equipment:			
	l protective equipment. I protective and hygienic measures:			
	way from foodstuffs, beverages and feed.			
	ands before breaks and at the end of work	•		
	inhale gases / fumes / aerosols.			
-	atory protection:			

Short term filter device:



· Protection of hands:



Neoprene gloves (0,47 mm)

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber

Recommended thickness of the material: $\geq 0.12 \text{ mm}$

· Penetration time of glove material

> 480 min.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

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SECTION 9: Physical and ch	iemical properties	
9.1 Information on basic physical a	and chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Colour: Odour:	Transparent Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
-	Noi acierminea.	
Change in condition	Undetermined	
Melting point/Melting range:	Undetermined. 179 °C	
Boiling point/Boiling range:		
Flash point:	> 62 °C (DIN 53213)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	> 200 °C	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.7 Vol %	
Upper:	6.0 Vol %	
Vapour pressure At 20 °C:	0.5 hPa	
Density At 20 °C:	0.82 g/cm ³ (DIN 51757)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wat		
Viscosity:		
Dynamic At 20 °C:	12 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	75.0 %	
Solids content:	25.0 % (DIN 53216)	
9.2 Other information	No further relevant information available.	
VOC (EU):	75.03 %	
<i>VOC (EU):</i>	615.2 g/l	
VOCV:	75.03 %	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 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

 \cdot 11.1 Information on toxicological effects

• Acute toxicity:

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)			
Oral	LD50	23669 mg/kg (rat)	
	LD50	23669 mg/kg (rat) 435 mg/kg (RABBIT)	
Inhalative	LC50/4 h	118 mg/l (RAT)	

64742-48	-9 Naphtha	(petroleum), hydrotreated heavy
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>5000 mg/kg (RABBIT)

111-76-2 2	-butoxyethe	inol
0 1	X D 50	100

Oral	LD50	>400 mg/kg (rat)
		2270 mg/kg (RAT)
Inhalative	LC50/4 h	>2 mg/l (RAT)
	LC50/24 h	1700 mg/l (Fish)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitisation: No sensitising effects known.

 \cdot Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

111-76-2 2-butoxyethanol

EC50/24 h >1500 mg/l (DAPHNIA MAGNA)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01 00 wastes from MFSU and removal of paint and varnish

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

• Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.*

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Danger

• *Hazard-determining components of labelling:* Naphtha (petroleum), hydrotreated heavy 2-butoxyethanol

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Hazard s	tatements (Contd. of page
-	rmful in contact with skin.
	<i>by be fatal if swallowed and enters airways.</i>
	onary statements
P280	Wear protective gloves/protective clothing/eye protection.
P301+P3	B10 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P322	Specific measures (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
National	regulations:
Technica	l instructions (air):
Class	Share in %
NK	75.0
Waterha	zard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
	mical safety assessment: A Chemical Safety Assessment has not been carried out.
10.2 0.00	
SECTI	ON 16: Other information
	rmation is based on our present knowledge. However, this shall not constitute a guarantee for an
specific p	product features and shall not establish a legally valid contractual relationship.
Relevant	phrases
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
	•
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
$D \cap D \cap D \cap D$	2 Harmful by inhalation in contact with skin and if swallowed
	2 Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
D	entiere MCDS, Desegrable & Development
	ent issuing MSDS: Research & Development
Contact:	Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980
	tions and acronyms:
	ment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning th al Transport of Dangerous Goods by Rail)
Internation	
Internation ICAO: Inte ADR: Acco	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
Internation ICAO: Inte ADR: Acco Carriage o	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation f Dangerous Goods by Road)
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods national Air Transport Association
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Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances
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Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Den	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances bical Abstracts Service (division of the American Chemical Society) vived No-Effect Level (REACH)
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Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Der PNEC: Pre LC50: Leth LD50: Leth	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road) rrnational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances ical Abstracts Service (division of the American Chemical Society) ived No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent al dose, 50 percent
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Den PNEC: Pre LC50: Leth LD50: Leth Acute Tox.	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road) rrnational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances sical Abstracts Service (division of the American Chemical Society) ived No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent al dose, 50 percent 4: Acute toxicity, Hazard Category 4
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Der PNEC: Pre LC50: Leth Acute Tox. Skin Irrit. 2	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances tical Abstracts Service (division of the American Chemical Society) tived No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent 4. Acute toxicity, Hazard Category 4 : Skin corrosion/irritation, Hazard Category 2
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Den PNEC: Pre LC50: Leth Acute Tox. Skin Irrit. 2 Eye Irrit. 2	al Transport of Dangerous Goods by Rail) rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road) ernational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances uical Abstracts Service (division of the American Chemical Society) ived No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent al dose, 50 percent 4: Acute toxicity, Hazard Category 4 : Skin corrosion/irritation, Hazard Category 2 · Serious eye damage/eye irritation, Hazard Category 2
Internation ICAO: Inte ADR: Acco Carriage o IMDG: Inte IATA: Inter GHS: Glob EINECS: E ELINCS: E CAS: Chen DNEL: Den PNEC: Pre LC50: Leth LD50: Leth Acute Tox. Skin Irrit. 2 Asp. Tox. 1	rnational Civil Aviation Organisation rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International f Dangerous Goods by Road) rnational Maritime Code for Dangerous Goods national Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances vical Abstracts Service (division of the American Chemical Society) ived No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent al dose, 50 percent 4: Acute toxicity, Hazard Category 4 : Skin corrosion/irritation, Hazard Category 2