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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

GB

DINITROL VCI UNI O-40

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

Corrosion protection Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

DINOL GmbH, Pyrmonter Str. 76, D-32676 Lügde Telephone: 05281 / 98 298 0, Fax: 05281 / 98 298-60 msds@dinol.com

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Emergency information services / official advisory body: +49 30 30686 790 (Berlin)

Telephone number of the company in case of emergencies:

Tel.: 05281 / 98 298 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments) Xi, Irritant, R36/38

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP) Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments)

Symbols: Xi Indications of danger: Irritant R-phrases: 36/38 Irritating to eyes and skin. S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37/39 Wear suitable gloves and eye/face protection. Additions: n.a.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.



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The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006. Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients

Gen. description:

GB

Mineral oil raffinate, auxiliary substances

3.1 Substance

n.a. **3.2 Mixture**

Octanoic acid, reaction products with 2-(diethylamino)ethanol	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	297-342-8
CAS	CAS 93455-58-4
content %	2,5-5
Classification according to Directive 67/548/EEC	Irritant, Xi, R36/38
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Eye Irrit. 2, H319

Octanoic acid	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	204-677-5
CAS	CAS 124-07-2
content %	1-2,4
Classification according to Directive 67/548/EEC	Corrosive, C, R34
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Corr. 1B, H314

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Supply person with fresh air.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Do not induce vomiting.

Medical attention necessary.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Page 3 of 10 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 02.09.2013 / 0003 Replaces revision of / Version: 08.02.2011 / 0002 Valid from: 02.09.2013 PDF print date: 05.09.2013 DINITROL VCI UNI O-40

Large fire: Water jet spray Alcohol resistant foam Cool container at risk with water.

GB

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid aerosol formation.

Avoid inhalation, and contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not heat to temperatures close to flash point.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

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GB

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8.1 Control parameters

8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Protective nitrile gloves (EN 374) Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes: >= 480 Protective Neoprene® / polychloroprene gloves (EN 374). Minimum layer thickness in mm: 0,65 Permeation time (penetration time) in minutes: >= 480 Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1 information on basic physical and chemical prope	el lleg
Physical state: Liqu	uid
Colour: Yello	llow
Odour: Cha	aracteristic
Odour threshold: Not	t determined

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pH-value:

(GB)

Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: 9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined Not determined n.a. 61 °C (ISO 2592 (Cleveland, open cup)) Not determined Not determined Not determined Not determined Not determined Not determined 0,88 g/cm3 (15°C, DIN 51757) Not determined Not determined Insoluble Not determined Not determined Not determined 52 mm2/s (40°C, DIN 51562) Product is not explosive. No

Not determined Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.
10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
No dangerous reactions are known.
10.4 Conditions to avoid
Heating, open flame, ignition sources
10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.

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Specific target organ toxicity -	n.d.a.	
single exposure (STOT-SE):		
Specific target organ toxicity -	n.d.a.	
repeated exposure (STOT-		
RE):		
Aspiration hazard:	n.d.a.	
Respiratory tract irritation:	n.d.a.	
Repeated dose toxicity:	n.d.a.	
Symptoms:	n.d.a.	
Other information:	Classification according	g
	to calculation	
	procedure.	

Octanoic acid						
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Respiratory or skin sensitisation:				Human being		Not sensitizising
Germ cell mutagenicity (bacterial):					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						respiratory distress, cornea opacity, coughing, headaches, mucous membrane irritation, shock, nausea and vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). **DINITROL VCI UNI O-40** Toxicity/effect Endpoint Time Value Unit Organism Test method Notes Toxicity to fish: Toxicity to daphnia: n.d.a. n.d.a. Toxicity to algae: n.d.a. Persistence and n.d.a. degradability: Bioaccumulative n.d.a. potential: Mobility in soil: n.d.a. Results of PBT and n.d.a. vPvB assessment: Other adverse effects: n.d.a.

Octanoic acid							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	110	mg/l	Brachydanio rerio		
Toxicity to daphnia:	EC50	24h	170	mg/l	Daphnia magna		
Toxicity to algae:	IC50	72h	144	mg/l			
Persistence and		28d	>70	%		OECD-	
degradability:						Screening-	
						Test(modif.)	

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DINITROL VCI UNI O-4							
Toxicity to bacteria:	EC10	30min	30	mg/l	Pseudomonas		
					putida		
		SECT	ION 1 ?	R. Dispo	sal considerat	ions	
		0201					
13.1 Waste treatm			_				
For the substance	e / mixture /	residu	ual amo	ounts			
EC disposal code no.:							
The waste codes are re							
Owing to the user's spec allocated under certain of	cific conditions	10r use a (2001/1)	and dispo 18/⊑⊂ 20				
Do not carry cleaning cl					,2001/373/20)		
12 01 07 mineral-based					ulsions and solution	s)	
Recommendation:	J		J	(- /	
Pay attention to local an	d national offic	cial regula	ations				
E.g. suitable incineratior	n plant.						
For contaminated							
Pay attention to local an		cial regula	ations				
15 01 02 plastic packag							
15 01 04 metallic packa							
Empty container comple Clean the container as p		ions of th	e produc	t manufacti	Irer		
Uncontaminated package				Inanulaci			
Do not perforate, cut up			tainer.				
· · ·						-	
		SEC	TION 1	4: Iran	sport informat	ion	
0	1-						
General statemen	ts						
UN number:		חום/חר	、		n.a.		
Transport by road)				
UN proper shipping nam Transport hazard class(na		
Packing group:	es).				n.a. n.a.		
Classification code:					n.a.		
LQ (ADR 2013):					n.a.		
LQ (ADR 2009):					n.a.		
Environmental hazards:					Not applicable		
Tunnel restriction code:		-)					
Transport by sea	•	e)					
UN proper shipping nam					n 0		
Transport hazard class(Packing group:	es).				n.a. n.a.		
Marine Pollutant:					n.a		
Environmental hazards:					Not applicable		
Transport by air (I							
UN proper shipping name:							
Transport hazard class(n.a.		
Packing group:					n.a.		
Environmental hazards:					Not applicable		
Special precaution							
Unless specified otherwise, general measures for safe transport must be followed.							
Transport in bulk					0L 73/78 and the	e IBC Code	
Non-dangerous material according to Transport Regulations.							
SECTION 15: Regulatory information							
				o. Nogu			

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture For classification and labelling see Section 2. Comply with trade association/occupational health regulations.

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Observe youth employment law (German regulation). **15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered. Revised sections:

3, 8, 9, 11, 12, 15

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

34 Causes burns.

GB

36/38 Irritating to eyes and skin. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation Skin Corr. — Skin corrosion

Any abbreviations and acronyms used in this document:

AC Article Categories according, according to acc., acc. to ACGIHAmerican Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approximately approx. Article number Art., Art. no. ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum body weight bw CAS Chemical Abstracts Service CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques **CIPAC** Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. European Community EC ECHA European Chemicals Agency European Economic Area EEA EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances

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GB

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SVHC Substances of Very High Concern Telephone Tel. ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VOC Volatile organic compounds vPvB very persistent and very bioaccumulative WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK). WHO World Health Organization

wwt wet weight

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.