

Printing date 30.08.2013 Version number 3 Revision: 08.11.2012

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

- · 1.1 Product identifier
- · Trade name: DINITROL 6900 Kontrollschwarz matt Spray
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation Paint
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

DINOL GmbH Pyrmonter Str. 76 D-32676 Lügde Tel: +49 5281 9829 80 Fax: +49 5281 9829 860

- Fax: +49 5281 9829 860 E-mail: msds@dinol.com
- · Further information obtainable from: Research & Development
- · 1.4 Emergency telephone number: Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Warning! Pressurized container.

Has a narcotizing effect.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · 2.2 Label elements
- · Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

- · Code letter and hazard designation of product:
- Xi Irritant
- *F*+ *Extremely flammable*
- · Risk phrases:
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.

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67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

· Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

- · Classification in accordance with Directive 75/324/EEC: Extremely flammable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with additions.

Dangerous components: CAS: 141-78-6	Ethyl acetate	10-<25%
EINECS: 205-500-4	★ Xi R36; F R11 R66-67	
	🚸 Flam. Liq. 2, H225; 아 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 123-86-4	n-Butyl acetate	10-<25%
EINECS: 204-658-1	R10-66-67	
Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; 🕂 STOT SE 3, H336	
CAS: 74-98-6	Propane liquefied	10-<25%
EINECS: 200-827-9	♦ F+ R12	
	🚸 Flam. Gas 1, H220; 🔷 Press. Gas, H280	
CAS: 106-97-8	Butane, pure	10-<25%
EINECS: 203-448-7	♦ F+ R12	
	🚸 Flam. Gas 1, H220; 🔷 Press. Gas, H280	
CAS: 108-10-1	4-Methylpentan-2-one	10-<25%
EINECS: 203-550-1	🗙 Xn R20; 🗙 Xi R36/37; 🎳 F R11	
Reg.nr.: 01-2119473980-30	$\overline{R66}$	
	♠ Flam. Liq. 2, H225; ♠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	

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Trade name: DINITROL 6900 Kontrollschwarz matt Spray

		(Contd. of page 2)
CAS: 67-64-1	Acetone	5-<10%
EINECS: 200-662-2	★ Xi R36; № F R11	
Reg.nr.: 01-2119471330-49	R66-67	
	🚸 Flam. Liq. 2, H225; 🕔 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 1330-20-7	Xylene, mixed isomers, pure	1-<5%
EINECS: 215-535-7	X Xn R20/21; X Xi R38	
	R10	
	♠ Flam. Liq. 3, H226; ♠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 9004-70-0	Cellulose nitrate	1-<5%
	F R11	
	Expl. 1.1, H201	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1-<5%
EINECS: 203-603-9	R10	
	🚸 Flam. Liq. 3, H226; 🕔 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: Call a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed Headache

Dizziness

· 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

 \cdot 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb liquid components with liquid-binding material.

· 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.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Maximum storage temperature: < 50 °C
- · 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
- · Ingredients with limit values that require monitoring at the workplace:

141-78-6 Ethyl acetate

WEL Short-term value: 400 ppm Long-term value: 200 ppm

123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

106-97-8 Butane, pure

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

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108-10-1	4-Methylpentan-2-one		(Contd. of pa
	ort-term value: 416 mg/m³, 100 ppm		
	ng-term value: 208 mg/m³, 50 ppm		
Sk,	BMGV		
67-64-1 A	Acetone		
	ort-term value: 3620 mg/m³, 1500 ppm		
	ng-term value: 1210 mg/m³, 500 ppm		
	7 Xylene, mixed isomers, pure		
	ort-term value: 441 mg/m³, 100 ppm ng-term value: 220 mg/m³, 50 ppm		
	BMGV		
108-65-6	2-methoxy-1-methylethyl acetate		
	ort-term value: 548 mg/m³, 100 ppm		
Loi Sk	ng-term value: 274 mg/m³, 50 ppm		
DNELs	De to I are start.		
	n-Butyl acetate e Acute - Local effects, worker		960 mg/m3 (Worker)
Innaiaiive			-
	Acute - local effects, general population		859.7 mg/m3 (General Population)
	Acute - systemic effects, general population		859.7 mg/m3 (General Population) 960 mg/m3 (Worker)
	Acute - systemic effenct, worker Long-term - local effects, general popular		102.34 mg/m3 (General Population)
	Long-term - local effects, worker		480 mg/m3 (Worker)
	Long-term - total effects, worker Long-term - systemic effects, general pop		102.34 mg/m3 (General Population)
	Long-term - systemic effects, worker		480 mg/m3 (Worker)
108-10-1	4-Methylpentan-2-one		Too mg/me (Worker)
Oral	Long-term - systemic effects, general pop	ulation	4.2 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general pop		
	Long-term - systemic effects, worker		11.8 mg/kg bw/day (Worker)
Inhalative	e Acute - Local effects, worker		208 mg/m3 (Worker)
	Acute - local effects, general population		155.2 mg/m3 (General Population)
	Acute - systemic effects, general population	on	155.2 mg/m3 (General Population)
	Acute - systemic effenct, worker		208 mg/m3 (Worker)
	Long-term - local effects, general popula	tion	14.7 mg/m3 (General Population)
	Long-term - systemic effects, general pop	ulation	14.7 mg/m3 (General Population)
	Long-term - systemic effects, worker		83 mg/m3 (Worker)
67-64-1 A	Acetone		
Dermal	Long-term - systemic effects, worker		186 mg/kg bw/day (Worker)
Inhalative	Acute - Local effects, worker		2420 mg/m3 (Worker)
	Long-term - systemic effects, worker		1210 mg/m3 (Worker)
PNECs			
	n-Butyl acetate		
-	The state of the s	_	L (not specified)
Aquatic c	ompartment - marine water (0.018 mg	g/L (not specified)



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	(Contd. of pa
Aquatic compartment - sediment in freshwater	0.981 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	0.0981 mg/kg sed dw (not specified)
Aquatic compartment - water, intermittent releases	0.36 mg/L (not specified)
Sewage treatment plant	35.6 mg/L (not specified)
Terrestrial compartment - soil	0.0903 mg/kg dw (not specified)
108-10-1 4-Methylpentan-2-one	
Aquatic compartment - freshwater	0.6 mg/L (not specified)
Aquatic compartment - marine water	0.06 mg/L (not specified)
Aquatic compartment - sediment in freshwater	8.27 mg/kg sed dw (not specified)
Sewage treatment plant	27.5 mg/L (not specified)
Terrestrial compartment - soil	1.3 mg/kg dw (not specified)
67-64-1 Acetone	
Aquatic compartment - marine water	1.06 mg/L (not specified)
Aquatic compartment - sediment in freshwater	30.4 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	3.04 mg/kg sed dw (not specified)
Terrestrial compartment - soil	29.5 mg/kg dw (not specified)
Ingredients with biological limit values:	
108-10-1 4-Methylpentan-2-one	
BMGV 20 μmol/L	
Medium: urine	
Sampling time: post shift	
Parameter: 4-methylpentan-2-one	
1330-20-7 Xylene, mixed isomers, pure	
BMGV 650 mmol/mol creatinine	
Medium: urine	
Sampling time: post shift	
Parameter: methyl hippuric acid	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- · Protection of hands: Not required.
- · 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.

Fluorocarbon rubber (Viton)

Nitrile rubber

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· 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.

- · Not suitable are gloves made of the following materials: Natural rubber
- · Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on l	basic physical and	l chemical	properties

· General Information

· Appearance:

Form: Aerosol
Colour: Black

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

• Flash point: < -20 °C (DIN 53213)

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: 365 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

· Explosion limits:

Lower: 1.2 Vol % **Upper:** 10.9 Vol %

· Vapour pressure At 20 °C: 4000 hPa

• **Density At 20 °C:** 0.773 g/cm³ (DIN 51757)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not applicable.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

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		(Contd. of page
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	86.1 %	
Solids content:	13.5 % (DIN 53216)	
9.2 Other information	No further relevant information available.	
· VOC (EU):	86.50 %	
<i>VOC (EU):</i>	670.0 g/l	
· VOCV:	86.50 %	

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.
- · 10.6 Hazardous decomposition products: Carbon monoxide

SECTIO	N 11: Tox	cicological information
· 11.1 Injori · Acute toxio		oxicological effects
		ant for classification:
	Ethyl acetate	· ·
Oral	LD50	4935 mg/kg (RABBIT)
Inhalative	LC50/4 h	1600 mg/l (RAT)
123-86-4 n	-Butyl acete	ate
Oral	LD50	10760 mg/kg (RAT)
Dermal	LD50	>14000 mg/kg (RABBIT)
Inhalative	LC50/4 h	>20 mg/l (RAT)
	LC50/96 h	18 mg/l (pimephales promelas)
106-97-8 B	Butane, pure	2
Inhalative	LC50/4 h	658 mg/l (rat)
108-10-1 4	-Methylpen	tan-2-one
Oral	LD50	2080 mg/kg (RAT)
Dermal	LD50	5990 mg/kg (RABBIT)
Inhalative	LC50/4 h	8-16 mg/l (RAT)
67-64-1 Ac	67-64-1 Acetone	
Oral	LD50	5800 mg/kg (RAT)
Dermal	LD50	20000 mg/kg (RABBIT)
1330-20-7	Xylene, mix	ced isomers, pure
Oral	LD50	8700 mg/kg (RAT)
Dermal	LD50	2000 mg/kg (RABBIT)

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			(Contd. of page 8)
	Inhalative	LC50/4 h	6350 mg/l (RAT)
Ī	108-65-6 2	-methoxy-1	-methylethyl acetate
	Oral	LD50	8500 mg/kg (rat)
	Inhalative	LC50/4 h	35.7 mg/l (rat)

- · Primary irritant effect:
- · on the skin: Prolonged or repeated contact with skin may cause slight irritation and/or reddening.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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:

Irritant

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

123-86-4 n-Butyl acetate

EC50/48 h | 44 mg/l (DAPHNIA MAGNA)

EC50/72 h 647.7 mg/l (ALGAE)

- · 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.

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.

· Europea	· European waste catalogue			
16 00 0	WASTES NOT OTHERWISE SPECIFIED IN THE LIST			
16 05 0	gases in pressure containers and discarded chemicals			
	* gases in pressure containers (including halons) containing dangerous substances			
08 00 0	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS			
08 01 0	wastes from MFSU and removal of paint and varnish			
08 01 11	* waste paint and varnish containing organic solvents or other dangerous substances			

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15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 10* packaging containing residues of or contaminated by dangerous substances

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name	40.00	
ADR	1950 AEROSOLS	
· IMDG	AEROSOLS	
· IATA	AEROSOLS, flammable	
· 14.3 Transport hazard class(es)		
ADR		
2		
· Class	2 5F Gases.	
Label	2.1	
· IMDG, IATA		
· Class	2.1	
· Label	2.1	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:		
Marine pollutant:	No	
· 14.6 Special precautions for user	Warning: Gases.	
Danger code (Kemler):	-	
· EMS Number:	F- D , S - U	
· 14.7 Transport in bulk according to Ann MARPOL73/78 and the IBC Code	nex II of Not applicable.	
Transport/Additional information:	**	
· <i>ADR</i>		:
· Limited quantities (LQ)	1L	
Transport category	2	

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· Tunnel restriction code

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SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

- · Code letter and hazard designation of product:
- Xi Irritant
- F+ Extremely flammable
- · Risk phrases:
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- · Safety phrases:
- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe vapour/spray.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.
- · Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

- · Classification in accordance with Directive 75/324/EEC: Extremely flammable
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	86.1

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Other regulations, limitations and prohibitive regulations
- · Please note: 3-3
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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(Contd. of page 11) · Relevant phrases H201 Explosive; mass explosion hazard. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20 Harmful by inhalation. R20/21 Harmful by inhalation and in contact with skin. R36 Irritating to eyes. R36/37 Irritating to eyes and respiratory system. R38 Irritating to skin. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. · Department issuing MSDS: Research & Development · Contact: Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980

* * Data compared to the previous version altered.

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