

Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

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

· 1.1 Product identifier

- · Trade name: DINITROL 4941/CAR 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 mixture Anticorrosion additive
- · 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 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



F+; Extremely flammable

R12: Extremely flammable

R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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:

F+ *Extremely flammable*

· Risk phrases:

- 12 Extremely flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.

(Contd. on page 2)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 1)

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 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

The petroleum naphtha / petroleum distillate / lubricating oil meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

- · 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: 64742-49-0 EC number: 920-750-0 Reg.nr.: 01-2119473851-33-0001	Naphtha (petroleum), hydrotreated light Xn R65; F R11; N R51/53 R66-67 ◆ Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; ↑ STOT SE 3, H336	10-<25%
CAS: 78-93-3 EINECS: 201-159-0	Methyl ethyl ketone	10-<25%
CAS: 74-98-6 EINECS: 200-827-9	Propane liquefied	10-<25%
CAS: 106-97-8 EINECS: 203-448-7	Butane, pure	10-<25%
CAS: 64742-49-0 EC number: 927-241-2 Reg.nr.: 01-2119471843-32-0001	Naphtha (petroleum), hydrotreated light	1-<5%
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Naphtha (petroleum), hydrotreated light ■ Xn R65; Xi R38; F R11; N R51/53 R67 ⑤ Flam. Liq. 2, H225; ⑥ Asp. Tox. 1, H304; ⑥ Aquatic Chronic 2, H411; ① Skin Irrit. 2, H315; STOT SE 3, H336	1-<5%

(Contd. on page 3)



Trade name: DINITROL 4941/CAR Spray

CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ■ Xn R65; Xi R37; N R51/53 R10-66-67 • Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	ntd. of page 2) 1-<5%
CAS: 67-56-1 EINECS: 200-659-6	Methanol ■ T R23/24/25-39/23/24/25; F R11 ♦ Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	<1%

[·] 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. Then consult a doctor.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 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.

- · For safety reasons unsuitable extinguishing agents: 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: Mount respiratory protective device.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 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.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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.

(Contd. on page 4)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 3)

Open and handle receptacle with care.

Use only in well ventilated areas.

· 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.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Long-term - systemic effects, worker

Long-term - systemic effects, worker

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

Dermal

10-93-3 W	lethyl ethyl ketone	
	rt-term value: 899 mg/m³, 300 ppm	
	g-term value: 600 mg/m³, 200 ppm	
	BMGV	
106-97-8 1	Butane, pure	
	rt-term value: 1810 mg/m³, 750 ppm	
	g-term value: 1450 mg/m³, 600 ppm	
	c (if more than 0.1% of buta-1.3-diene)	
67-56-1 M	lethanol	
	rt-term value: 333 mg/m³, 250 ppm	
Long-term value: 266 mg/m³, 200 ppm		
Sk		
DNELs		
64742-49-	0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	699 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	608 mg/m3 (General Population)
	Long-term - systemic effects, worker	2035 mg/m3 (Worker)
64742-49-	0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	300 mg/kg bw/day (General Population)

Long-term - systemic effects, general population 300 mg/kg bw/day (General population)

Inhalative Long-term - systemic effects, general population 900 mg/m3 (General Population)

300 mg/kg bw/day (Worker)

1500 mg/m3 (Worker)

(Contd. on page 5)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

64742-49-	0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	699 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	608 mg/m3 (General Population)
	Long-term - systemic effects, worker	2035 mg/m3 (Worker)
64742-95-	6 Solvent naphtha (petroleum), light arom.	
Oral	Long-term - systemic effects, general population	11 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	25 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	150 mg/m3 (Worker)
67-56-1 M	ethanol	
Oral	Acute - systemic effects, general population	8 mg/kg bw/day (General Population)
	Long-term - systemic effects, general population	8 mg/kg bw/day (General Population)
Dermal	Acute - systemic effects, general population	8 mg/kg (General population)
	Acute - systemic effects, worker	40 mg/kg bw/day (Worker)
	Long-term - systemic effects, general population	8 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	40 mg/kg bw/day (Worker)
Inhalative	Acute - Local effects, worker	260 mg/m3 (Worker)
	Acute - local effects, general population	50 mg/m3 (General Population)
	Acute - systemic effects, general population	50 mg/m3 (General Population)
	Acute - systemic effects, worker	260 mg/m3 (Worker)
	Long-term - local effects, general population	50 mg/m3 (General Population)
	Long-term - local effects, worker	260 mg/m3 (Worker)
	Long-term - systemic effects, general population	50 mg/m3 (General Population)
	Long-term - systemic effects, worker	260 mg/m3 (Worker)

67-56-1 Methanol

Aquatic compartment - freshwater154 mg/L (not specified)Aquatic compartment - marine water15.4 mg/L (not specified)Aquatic compartment - sediment in marine water570.4 mg/kg sed dw (not specified)Aquatic compartment - water, intermittent releases1540 mg/L (not specified)Sewage treatment plant100 mg/L (not specified)Terrestrial compartment - soil23.5 mg/kg dw (not specified)

· Ingredients with biological limit values:

78-93-3 Methyl ethyl ketone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift Parameter: butan-2-one

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

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

(Contd. on page 6)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 5)

· 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.

Use suitable respiratory protective device in case of insufficient ventilation.

- · 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

Recommended thickness of the material: ≥ 0.12 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:



Tightly sealed goggles

SECTION 9: Enysical and chemical properties	
· 9.1 Information on basic physical and chemical properties	
· General Information	
· Appearance:	

Form: Aerosol
Colour: Black
• Odour: Characteristic
• Odour threshold: Not determined

Odour threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44 °C

• Flash point: < -20 °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 is not explosive. However, formation of explosive air/vapour

mixtures are possible.

· Explosion limits:

 Lower:
 0.6 Vol %

 Upper:
 11.5 Vol %

· Vapour pressure At 20 °C: 8300 hPa

• **Density At 20 °C:** 0.812 g/cm³ (DIN 51757)

Relative densityVapour densityNot determined.Not determined.

(Contd. on page 7)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

		(Contd. of page 6
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/v	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	65.1 %	
Water:	0.1 %	
Solids content:	34.8 % (DIN 53216)	
· 9.2 Other information	No further relevant information available.	
· VOC (EU):	65.14 %	
$\cdot VOC(EU)$:	528.9 g/l	
· VOCV:	65.14 %	

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.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:

LD/LC50	values rele	evant for classification:
64742-49-	0 Naphtha	ı (petroleum), hydrotreated light
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>2800 mg/kg (RABBIT)
Inhalative	LC 50	>23.3 mg/l (RAT)
78-93-3 M	ethyl ethyl	l ketone
Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)
106-97-8 I	Butane, pu	re
Inhalative	LC50/4 h	658 mg/l (rat)
64742-49-	0 Naphtha	(petroleum), hydrotreated light
Oral	LD50	>5840 mg/kg (RAT)
Dermal	LD50	>2920 mg/kg (RABBIT)
Inhalative	LC50/4 h	>25.2 mg/l (RAT)
64742-95-	6 Solvent r	naphtha (petroleum), light arom.
Dermal	LD50	>2000 mg/kg (RABBIT)
67-56-1 M	ethanol	,
Oral	LD50	13000 mg/kg (rat)
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Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 7)

- · Primary irritant effect:
- · on the skin: Prolonged or repeated contact with skin may cause slight irritation and/or reddening.
- · on the eye: Irritation to eyes possible after a long exposure time.
- · Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.

SECTION 12: Ecological information

· 12.1 Toxicity

$\cdot Aq$	uatic	toxic	ity:

64742-49-0 Naphtha (petroleum), hydrotreated light

EL50/48 h 3 mg/l (DAPHNIA MAGNA)

EL50/72 h | 10-30 mg/l (SELENASTRUM CAPRICORNUTUM)

LL50/96 h >13.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50/48 h 10 mg/l (PHAEOPHYTA)

EL50/48 h | 3 mg/l (DAPHNIA MAGNA)

EL50/72 h | 30-100 mg/l (SELENASTRUM CAPRICORNUTUM)

LL50/96 h 11.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

- 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · 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.

Harmful to aquatic organisms

- · 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.

· European waste catalogue

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALAN	(SU) OF
AND DDINTING INVE	<i>ALANTS</i>
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.

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Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 8)

SECTION 14: Transport informat	ion
· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
$\cdot ADR$	
· Class	2 5F Gases.
· Label	2.1
· 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 Anne MARPOL73/78 and the IBC Code	<u> </u>
· Transport/Additional information:	For ADR and IMDG: Transport and packing are accordance with the regulation for limited quantitie These products are therefore classified as no dangerous goods.
\cdot ADR	
· Limited quantities (LQ)	IL
· Transport category	2
· Tunnel restriction code	D

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.

(Contd. on page 10)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 9)

· Code letter and hazard designation of product:

F+ Extremely flammable

· Risk phrases:

- 12 Extremely flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 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 %	
Ι	0.6	
NK	64.5	

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

· Relevant phrases

Trees and pro-	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
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(Contd. on page 11)



Printing date 13.03.2014 Version number 24 Revision: 17.02.2014

Trade name: DINITROL 4941/CAR Spray

(Contd. of page 10)

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

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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