

according to 1907/2006/EC, Article 31

Printing date 23.02.2014 Version number 7 Revision: 23.02.2014

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

- · 1.1 Product identifier
- · Trade name: DINITROL RC 900 SPRAY
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Product category

Coatings and paints, thinners, paint removers

PC14 Metal surface treatment products, including galvanic and electroplating products

· Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Environmental release category

ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Application of the substance / the mixture

Coating material

rust neutraliser and epoxy primer

- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

DINOL GmbH

Pyrmonter Strasse 76

DE - 32676 Lügde

Tel. +49/ (0)5281 98298 -0 Fax +49/ (0)5281 98298 -60

· Further information obtainable from:

Tel. +49 (0) 5281 98 298 0, Fax. +49 (0) 5281 98 298 60

Ansprechpartner: Entwicklung

E-Mail: msds@dinol.com

· 1.4 Emergency telephone number:

Toxikologisches Informationszentrum

CH - 8030 Zürich, Freiestrasse 16

Tel. +41/ 044 251 51 51

Notruf - CH - : 145 Notruf - D - :

Giftnotrufzentrale 030 19240

Notruf - BE - : 070 -245 245 EUROPÄISCHE NOTRUFNR.: 112

Notruf - GB - : 844 892 0111

Notruf - IE - : + 353 1 837 9964 (medical professionals); + 353 1 809

2166 (public)

Notruf - IS - : + 354 543 22 22

Notruf - JP - : + 81 72 727 2499; + 81 29 852 9999

Notruf - NZ - : 0800 764 766

Notruf - PK - : + 92 21 9920509; + 92 21 35686535 Notruf - PH - : + 632 524 10 78; + 632 544 84 0

Notruf - PH - : + 632 524 10 78; + 632 544 84 00; local 2311 Notruf - SA - : + 966 146 77 353, + 966 3 8155 646; Ext. 280, 282,

283

Notruf - TH - : + 66 201 1086

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Notruf - UAE - : 800 424

Notruf - ZA - : + 27 824 910 160

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

acetone

- · Hazard statements
 - H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
- · Precautionary statements

P101	If medical advic	e is needed,	have product	container or
	label at hand.			

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

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· Additional information:

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. Keep away from sources of ignition - No smoking.

- Buildup of explosive mixtures possible without sufficient ventilation.
- · 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 nonhazardous additions.

· Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-XXXX	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-XXXX	4-methylpentan-2-one Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-XXXX	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%
CAS: 10024-97-2 EINECS: 233-032-0	dinitrogen oxide Ox. Gas 1, H270 Acute Tox. 1, H330 Press. Gas, H280	2.5-10%
CAS: 64-18-6 EINECS: 200-579-1 Reg.nr.: 01-2119491174-37-XXXX	formic acid Skin Corr. 1A, H314	≤2.0%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	≤2.8%

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information:

Take affected persons out into the fresh air. Do not leave affected persons unattended.

Position and transport stably in side position.

Seek medical treatment.

- · After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation continues, consult a doctor.

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· After eye contact:

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

After swallowing:

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

· 4.2 Most important symptoms and effects, both acute and delayed Dizziness Dizziness

· 4.3 Indication of any immediate medical attention and special treatment

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 with full jet
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained 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 Ensure adequate ventilation

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: Send for recovery or disposal in suitable receptacles. Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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

Store in cool, dry place in tightly closed receptacles.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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· 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 $^{\circ}$ 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: Store away from foodstuffs.
- · Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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

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

· Ingredients with lim	· Ingredients with limit values that require monitoring at the workplace:				
67-64-1 acetone					
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm				
NES (Australia)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm				
WES (New Zealand)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm bio				
108-10-1 4-methylpentan-2-one					
WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk, BMGV				
NES (Australia)	Short-term value: 307 mg/m^3 , 75 ppm Long-term value: 205 mg/m^3 , 50 ppm				
WES (New Zealand)	Short-term value: 307 mg/m^3 , 75 ppm Long-term value: 205 mg/m^3 , 50 ppm				
67-63-0 propan-2-ol					
WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm				
NES (Australia)	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm				
WES (New Zealand)	Short-term value: 1230 mg/m³, 500 ppm				

Long-term value: 983 mg/m³, 400 ppm

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(Contd. of page 5) 107-98-2 1-methoxy-2-propanol WEL (Great Britain) Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm NES (Australia) Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm WES (New Zealand) Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm 10024-97-2 dinitrogen oxide WEL (Great Britain) Long-term value: 183 mg/m³, 100 ppm NES (Australia) Long-term value: 45 mg/m³, 25 ppm WES (New Zealand) Long-term value: 45 mg/m³, 25 ppm 112-34-5 2-(2-butoxyethoxy)ethanol WEL (Great Britain) | Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm 64-18-6 formic acid WEL (Great Britain) Long-term value: 9.6 mg/m³, 5 ppm NES (Australia) Short-term value: 19 mg/m³, 10 ppm Long-term value: 9.4 mg/m^3 , 5 ppmWES (New Zealand) Short-term value: 19 mg/m³, 10 ppm Long-term value: 9.4 mg/m³, 5 ppm · Ingredients with biological limit values: 108-10-1 4-methylpentan-2-one BMGV (Great Britain) 20 μmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-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:

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:

Short term filter device:

Filter A/P2

Filter AX

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:

Check the permeability prior to each anewed use of the glove.



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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· <u>Material of gloves</u> Nitrile rubber, NBR

Butyl rubber, BR

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.

• Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Aerosol Form: Colour: Amber coloured Characteristic · Odour: · Odour threshold: Not determined. • pH-value at 20 °C (68 °F): 4.8 \cdot Change in condition Melting point/Melting range: Undetermined. 55 °C (131 °F) Boiling point/Boiling range: 13 °C (55 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. 270 °C (518 °F) · Ignition temperature: Not determined. · Decomposition temperature: · 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: 2.6 Vol % 13.0 Vol % Upper: · Vapour pressure at 20 °C (68 °F): 233 hPa (175 mm Hg)

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(Contd. of page 7) • Density at 20 °C (68 °F): $0.93 \text{ g/cm}^3 (7.761 \text{ lbs/gal})$ Relative density Not determined. Vapour density Not determined. Not applicable. • Evaporation rate · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient (n-octanol/ Not determined. · Viscosity: Not determined. Dynamic: *Kinematic:* Not determined. · Solvent content: Organic solvents: 65.5 % VOC (EC) 64.03 % Solids content: • 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability stable
 Thermal decomposition / conditions to be avoided:
 - No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions Danger of bursting.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
 - No dangerous decomposition products known.

SECTION 11: Toxicological information

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

• LD/LC50 val	· LD/LC50 values relevant for classification:		
67-64-1 acetone			
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
108-10-1 4-methylpentan-2-one			
Oral	LD50	2080 mg/kg (rat)	
Dermal	LD50	16000 mg/kg (rab)	
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)	
67-63-0 pro	67-63-0 propan-2-ol		
Oral	LD50	5045 mg/kg (rat)	
Dermal	LD50	12800 mg/kg (rabbit)	
Inhalative	LC50/4 h	30 mg/l (rat)	
107-98-2 1-	107-98-2 1-methoxy-2-propanol		
Oral	LD50	5660 mg/kg (rat)	
Dermal	LD50	13000 mg/kg (rabbit)	
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(Contd. of page 8) Inhalative LC50/4 h 6 mg/l (rat) 10024-97-2 dinitrogen oxide Inhalative LC50/4 h 1.06 mg/l (rat) 112-34-5 2-(2-butoxyethoxy)ethanol LD50 5660 mg/kg (rat) LD50 Dermal 4000 mg/kg (rabbit) 64-18-6 formic acid LD50 1100 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect. 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: No further relevant information available.
- 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.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA UN1950

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	14.2	UN	proper	shipping	name
•	ADR				

1950 AEROSOLS

IMDGAEROSOLS

IATAAEROSOLS, flammable

- 14.3 Transport hazard class(es)
- ADR



5F Gases. · Class

Label

IMDG, <u>IATA</u>



2.1 · Class · Label 2.1

· 14.4 Packing group

Void · ADR, IMDG, IATA

• 14.5 Environmental hazards:

Marine pollutant:

· 14.6 Special precautions for user Warning: Gases.

· Danger code (Kemler):

• EMS Number: F-D,S-U

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the

IBC Code Not applicable.

· Transport/Additional information:

ADR

· Limited quantities (LQ) 1LTransport category · Tunnel restriction code

· UN "Model Regulation": UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

• 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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

- · Department issuing MSDS: Abteilung Produktsicherheit
- · Contact: siehe Seite 1 / see page 1
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.

GB