

Safety Data Sheet

according to UK REACH Regulation

DINITROL Metallic Spray

Revision date: 14.04.2025

Product code: 21705

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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier **DINITROL Metallic Spray** UFI: 1T3D-JMUU-K007-HVX9 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Anti-corrosive coating Uses advised against No further relevant information available. 1.3. Details of the supplier of the safety data sheet Manufacturer DINOL GmbH Company name: Street[.] Pyrmonter Strasse 76 Place: D-32676 Luegde Telephone: + 49 (0) 5281 982980 Telefax: + 49 (0) 5281 9829860 msds@dinol.com E-mail: Contact person: Labor Responsible Department: msds@dinol.com Supplier Company name: Leading Solvent Supplies Limited Street: Marston Business Park, Rudgate Place: GB Tockwith. York YO26 7QF E-mail: enquiries@leading-solvents.co.uk Internet: www.leading-solvents.co.uk 1.4. Emergency telephone Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch) number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.



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Precautionary statements

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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

Restricted to professional users.

Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

Labelling of packages where the contents do not exceed 125 ml

Signal word:





Hazard statements

H222-H229

Precautionary statements P210-P251-P410+P412

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)		
	Hydrocarbons, C9-C11, n-alkanes,	isoalkanes, cyclics, <2% aror	natics	40 - < 45 %
	919-857-5		01-2119463258-33	
	Flam. Liq. 3, STOT SE 3, Asp. Tox	. 1; H226 H336 H304 EUH06	3	
74-98-6	propane	10 - < 15 %		
	200-827-9			
	Flam. Gas 1A, Compressed gas; H			
106-97-8	n-butane	10 - < 15 %		
	203-448-7		01-2119474691-32	
	Flam. Gas 1A, Compressed gas; H			
64-17-5	Ethanol	1 - < 5 %		
	200-578-6		01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H31			
7429-90-5	aluminium powder (stabilised)	1 - < 5 %		
	231-072-3	013-002-00-1	01-2119455851-35	
	Flam. Sol. 1, Water-react. 2; H228			

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. I	Limits, M-factors and ATE			
	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	40 - < 45 %		
	inhalation: LC5 mg/kg	50 = > 5000 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000			
64-17-5	200-578-6	Ethanol	1 - < 5 %		
		50 = > 50 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 10470 t. 2; H319: >= 50 - 100			
7429-90-5	231-072-3	1-072-3 aluminium powder (stabilised)			
	inhalation: LC5	50 = >5 mg/l (dusts or mists)			

Further Information

Hydrocarbons meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

Wash with plenty of water/Soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately. Do NOT induce vomiting.

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 media

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or

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surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For emergency responders

For further specification, refer to section 8 of the SDS.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Provide adequate ventilation. Clear contaminated areas thoroughly. Do not rinse down with water.

Other information

No information available.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Not required.



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Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <20	% aromatics						
Consumer DN	NEL, long-term	oral	systemic	125 mg/kg bw/day				
Worker DNEL	_, long-term	dermal	systemic	208 mg/kg bw/day				
Consumer DN	NEL, long-term	dermal	systemic	125 mg/kg bw/day				
Worker DNEL	_, long-term	inhalation	systemic	871 mg/m³				
Consumer D	NEL, long-term	inhalation	systemic	185 mg/m³				
64-17-5	Ethanol							
Consumer DN	NEL, long-term	dermal	systemic	206 mg/kg bw/day				
Worker DNEL	_, long-term	dermal	systemic	343 mg/kg bw/day				
Consumer DN	NEL, long-term	inhalation	systemic	114 mg/m³				
Worker DNEL	_, long-term	inhalation	systemic	950 mg/m³				
Worker DNEL	_, acute	inhalation	local	1900 mg/m³				
Consumer DN	NEL, acute	inhalation	local	950 mg/m³				
7429-90-5	aluminium powder (stabilised)							
Worker DNEL, long-term		inhalation	systemic	3,72 mg/m³				
Worker DNEL, long-term		inhalation	local	3,72 mg/m³				
Consumer DNEL, long-term		oral	systemic	3,95 mg/kg bw/day				
3								



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PNEC values

CAS No	Substance					
Environmen	tal compartment	Value				
64-17-5	Ethanol					
Freshwater		0,96 mg/l				
Marine wate	r	0,79 mg/l				
Freshwater sediment 3,6 mg/l						
Marine sediment 2,9 m						
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l				
Soil		0,63 mg/kg				
7429-90-5 aluminium powder (stabilised)						
Freshwater 0,0749 mg/l						
Micro-organisms in sewage treatment plants (STP) 20 mg/l						

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection (EN 166)

Hand protection

Recommended glove articles :

FKM (fluoro rubber), Breakthrough time:: 480 min.

NBR (Nitrile rubber), Breakthrough time:: 480 min.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

mentioned above together with the supplier of these gloves.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection. gas filtering equipment (EN 141)., Filter material/medium: AX

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	bronze
Odour:	characteristic
Odour threshold:	not determined

Test method

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Melting point/freezing point:not determinedBoiling point or initial boiling point and-42 °Cboiling range:-42 °C	
Flammability: not applicable	
Lower explosion limits: 0,6 vol. %	
Upper explosion limits: 10,9 vol. %	
Flash point: <- 20 °C DIN	N 53213
Auto-ignition temperature: > 200 °C	
Decomposition temperature: not determined	
pH-Value: not determined	
Viscosity / kinematic: not determined	
Water solubility: The study does not need to be conducted	
because the substance is known to be	
insoluble in water.	
Solubility in other solvents not determined	
Partition coefficient n-octanol/water: not determined	
Vapour pressure: 8300 hPa (at 20 °C)	
Density (at 20 °C):0,8 g/cm³ DINRelative vapour density:not determined	N 51757
9.2. Other information	
Information with regard to physical hazard classes	
Explosive properties not determined	
Sustained combustibility: No data available Self-ignition temperature	
Solid: not applicable	
Gas: not applicable	
Oxidizing properties Not oxidising.	
Other safety characteristics	
Evaporation rate: not determined	
Solvent separation test: not determined	
Solvent content: 68,9 %	
Solid content: 30,1%	
Viscosity / dynamic: not determined	
Further Information	
No information available.	

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation gas) > 20000 ppm

CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics								
	oral	LD50 mg/kg	> 5000	Rat					
	dermal	LD50 mg/kg	> 5000	Rabbit					
	inhalation (4 h) vapour	LC50 mg/l	> 5000	Rat					
64-17-5	Ethanol								
	oral	LD50 mg/kg	10470	Rat					
	dermal	LD50 mg/kg	> 2000	Rabbit					
	inhalation (4 h) vapour	LC50	> 50 mg/l	Rat					
7429-90-5	0-5 aluminium powder (stabilised)								
	inhalation (4 h) dust/mist	LC50	>5 mg/l	Rat					

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential No information available.



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Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
64-17-5	Ethanol							
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris			
	Acute crustacea toxicity	EC50 mg/l	> 10000		Daphnia magna (Big water flea)			

12.2. Persistence and degradability

No further relevant information available.

CAS No	Chemical name							
	Method Value d Source							
	Evaluation							
	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics							
	80%							
	Readily biodegradable (according to OECD criteria).							

12.3. Bioaccumulative potential

No further relevant information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes. List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

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List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1950 AEROSOLS 2 - 2.1
Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Tunnel restriction code: Other applicable information (land tra E0	5F 190 327 344 625 1 L E0 2 D ansport)
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1950 AEROSOLS 2 - 2.1
Classification code: Limited quantity: Excepted quantity: Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	5F 1 L E0 UN 1950 AEROSOLS 2.1 - 2.1
Marine pollutant: Special Provisions: Limited quantity: Excepted quantity:	yes 63, 190, 277, 327, 344, 959 1000 mL E0



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EmS:	F-D, S-U		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1950		
14.2. UN proper shipping name:	AEROSOLS, FLAMMABLE		
14.3. Transport hazard class(es):	2.1		
<u>14.4. Packing group:</u> Hazard label:	- 2.1		
	2.1		
Special Provisions:	A145 A167 A802		
Limited quantity Passenger:	30 kg G		
Passenger LQ:	Y203		
Excepted quantity: IATA-packing instructions - Passenger:	E0 203		
IATA-packing instructions - Passenger:	75 kg		
IATA-packing instructions - Cargo:	203		
IATA-max. quantity - Cargo:	150 kg		
Other applicable information (air transpo E0	ort)		
Passenger-LQ: Y203			
14.5. Environmental hazards	^		
ENVIRONMENTALLY HAZARDOUS:	Yes		
Danger releasing substance:	Hydrocarbons, aliphatic		
14.6. Special precautions for user Warning gas			
14.7. Maritime transport in bulk according t not applicable	o IMO instruments		
Other applicable information			
For AEROSOLS with a capacity above Category C, Clear of living quarters. SG69 For AEROSOLS with a maximu			
	arated from" class 1 except for division 1.4.		
For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2.			
	as for the appropriate subdivision of class 2.		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental requ	lations/legislation specific for the substance or mixture		
EU regulatory information			

Additional in	· · · ·	
	according to Directive (SEVESO III):	P3a FLAMMABLE AEROSOLS
paints and va	arnishes:	516,4 g/l
Directive 200	04/42/EC on VOC in	68,67 %
Entry 29	, Entry 40, Entry 75	
Restrictions	on use (REACH, annex XVII):	



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Observe in addition any national regulations! Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 2 - obviously hazardous to water

Water hazard class (D):

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

86164

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,15.

Abbreviations and acronyms

Water-react: Substances and mixtures which in contact with water emit flammable gases Flam. Gas: Flammable gases Aerosol: Aerosols Compressed gas Flam. Liq: Flammable liquids Flam. Sol: Flammable solids Asp. Tox: Aspiration hazard Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure 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 LC50: Lethal concentration. 50% LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
STOT SE 3; H336	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.

DINOL	GmbH

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ressurised container: May burst if heated.		
contact with water releases flammable gases.		
ontains gas under pressure; may explode if heated.		
lay be fatal if swallowed and enters airways.		
auses serious eye irritation.		
lay cause drowsiness or dizziness.		
epeated exposure may cause skin dryness or cracking.		

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)