

Printing date 29.11.2019 Version number 28 Revision: 30.10.2019

## 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 700 Beratung in Deutsch und Englisch.

### SECTION 2: Hazards identification

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



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



Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	Н336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic	3 H412	Harmful to aquatic life with long lasting effects.

- · 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:

Naphtha (petroleum), hydrotreated light

Methyl ethyl ketone

Solvent naphtha (petroleum), light arom.

· Hazard statements

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

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H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking. Buildup of explosive mixtures possible without sufficient ventilation.

### · 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 characterisation: Mixtures
- · **Description:** Mixture of substances listed below with additions.

CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	10-<25%
EC number: 920-750-0 Reg.nr.: 01-2119473851-33-0001	♠ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♠ STOT SE 3, H336	
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Methyl ethyl ketone  Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane liquefied  Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	Isobutane  Flam. Gas 1, H220; Press. Gas C, H280	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane, pure  Flam. Gas 1, H220; Acute Tox. 3, H331; Press. Gas C, H280	5-<10%
CAS: 64742-49-0 EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Naphtha (petroleum), hydrotreated light Alternative CAS number: 1174921-73-3  Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	3-<5%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	1-<3%
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Naphtha (petroleum), hydrotreated light  Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Nskin Irrit. 2, H315; STOT SE 3, H336	1-<3%

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· Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air or oxygen; call for doctor.
- · 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:

If symptoms persist consult doctor.

Do not induce vomiting; call for medical help immediately.

- · 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.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- $\cdot \textit{Protective equipment:} \ \textit{Mount respiratory protective device}.$
- · 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.

Avoid contact with skin, eyes and clothes.

· 6.2 Environmental precautions:

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:

Dispose contaminated material as waste according to item 13.

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 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.

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Pressurised 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:

Observe official regulations on storing packagings with pressurised containers.

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

· Ingre	· Ingredients with limit values that require monitoring at the workplace:		
CAS:	78-93-3 Methyl ethyl ketone		
WEL	Short-term value: 899 mg/m³, 300 ppm		
	Long-term value: 600 mg/m³, 200 ppm		
	Sk, BMGV		
CAS:	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)		

· Regulatory information WEL: EH40/2018

DNELs		
CAS: 6474	12-49-0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)
	Long-term - systemic effects, general population	699 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, worker	2,035 mg/m3 (Worker)
	Long-term - systemic effects, general population	608 mg/m3 (General Population)
CAS: 6474	12-49-0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	125 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, worker	208 mg/kg bw/day (Worker)
	Long-term - systemic effects, general population	125 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, worker	871 mg/m3 (Worker)
	Long-term - systemic effects, general population	185 mg/m3 (General Population)
CAS: 6474	12-95-6 Solvent naphtha (petroleum), light arom.	
Oral	Long-term - systemic effects, general population	11 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, worker	25 mg/kg bw/day (Worker)
	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, worker	150 mg/m3 (Worker)
CAS: 6474	12-49-0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)



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Long-term - systemic effects, general population 699 mg/kg bw/day (General population)

Long-term - systemic effects, worker 2,035 mg/m3 (Worker)

Long-term - systemic effects, general population 608 mg/m3 (General Population)

### · Ingredients with biological limit values:

### CAS: 78-93-3 Methyl ethyl ketone

BMGV 70 µmol/L

Medium: urine

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

- · Regulatory information BMGV: EH40/2011
- · 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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:



Filter A

#### · Protection of hands:

Not required.

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

#### · 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:  $\geq 0.12$  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.

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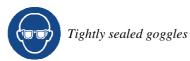


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 $\cdot$  Eye protection:



9.1 Information on basic physical and c	chemical properties
General Information	1 1
Appearance:	
Form:	Aerosol
Colour:	Black
Odour:	Characteristic Not determined.
Odour threshold:	
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	
Flash point:	<-20 °C (DIN 53213)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	>200 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive a vapour mixtures are possible.
Explosion limits:	
Lower:	0.6 Vol %
Upper:	11.5 Vol %
Vapour pressure At 20 °C:	8,300 hPa
Density At 20 °C:	0.82 g/cm³ (DIN 51757)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	64.7 %
Water:	0.1 %
Solids content:	35.2 % (DIN 53216)



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• 9.2 Other information No further relevant information available.

· VOC (EU):
 · VOC (EU):
 · VOCV:
 63.87 %
 524.4 g/l
 64.74 %

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 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

## SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5,000 mg/kg (RAT)
Dermal	LD50	>2,800 mg/kg (RABBIT)
Inhalative	LC 50	>23.3 mg/l (RAT)
CAS: 78-9	3-3 Methy	l ethyl ketone
Oral	LD50	3,300 mg/kg (RAT)
Dermal	LD50	5,000 mg/kg (RAT)
CAS: 106-97-8 Butane, pure		
Inhalative	LC50/4 h	658 mg/l (rat)
CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	4,951 mg/kg (RAT)
Dermal	<i>LD50</i>	>5,000 mg/kg (RABBIT)
Inhalative	LC50/4 h	4,951 mg/l (RAT)
CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.		
Dermal	LD50	>2,000 mg/kg (RABBIT)
CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5,840 mg/kg (RAT)
Dermal	<i>LD50</i>	>2,920 mg/kg (RABBIT)
Inhalative	LC50/4 h	>25.2 mg/l (RAT)
TO 1	witaret offor	

- · Primary irritant effect:
- · Skin corrosion/irritation

Prolonged or repeated contact with skin may cause slight irritation and/or reddening.

· Serious eye damage/irritation

Irritation to eyes possible after a long exposure time.

Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- · Additional toxicological information: No further relevant information available.
- · Ingestion: Risk of chemical pneumonia if the product reaches the lungs at vomiting or similar.
- · CMR effects (carcinogenity, mutagenicity and toxicity 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.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard

May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

· 12.1 Toxicity

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$\cdot Aa$	uatic	toxi	citv:

### CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

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

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

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

### CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

EL50/48 h >22-<46 mg/l (DAPHNIA MAGNA)

 $EL50/72 \ h > 1,000 \ mg/l \ (ALGAE)$ 

### CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

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

EC50/48 h 10 mg/l (PHAEOPHYTA)

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

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

- · 12.2 Persistence and degradability No further relevant information available.
- $\cdot \textbf{12.3 Bioaccumulative potential} \ \textit{No further relevant information available}.$
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

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.

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Dispose of as dangerous waste.

· European waste catalogue		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
HP3	Flammable	
HP14	Ecotoxic	

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

SECTION 14: Transport informa	
· 14.1 UN-Number · ADR/RID/ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR/RID/ADN · IMDG	1950 AEROSOLS AEROSOLS
· IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN	
· Class	2 5F Gases.
· Label	2.1
· Class · Label	2.1 2.1
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code	Warning: Gases F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 l Category A. For AEROSOLS with a capacity above 1 l
· Segregation Code	Category A. For AEROSOLS with a capacity above 1 to Category B. For WASTE AEROSOLS: Category C, C of living quarters.  SG69 For AEROSOLS with a maximum capacity of 1 li. Segregation as for class 9. Stow "separated from" class except for division 1.4.  For AEROSOLS with a capacity above 1 litre:



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	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Anno	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
· · · · · · · · · · · · · · · · · · ·	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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:

Naphtha (petroleum), hydrotreated light

Methyl ethyl ketone

Solvent naphtha (petroleum), light arom.

· Hazard statements

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

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	64.7

- · Waterhazard class: Water hazard class 2 (Self-assessment): 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

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- · Department issuing SDS: Research & Development
- · Contact: Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980
- · 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 Organisation

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 Harmonised 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)

 $DNEL: Derived\ No\text{-}Effect\ Level\ (REACH)$ 

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas C: Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity - inhalation - Category 3





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Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

\* \* Data compared to the previous version altered.