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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 29.01.2009

Revision: 29.01.2009

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: DINITROL 4010 SPRAY

- · Application of the substance / the preparation Anticorrosion additive
- · Manufacturer/Supplier:
- EFTEC Ltd. Rhigos, Aberdare, Mid-Glamorgan CF44 9UE, United Kingdom EFTEC Aftermarket GmbH Pyrmonterstr. 76 D-32676 Lügde
- Further information obtainable from: $+44(0)16\ 85\ 81\ 54\ 00\ Q\&E\ Plastisols$
- Information in case of emergency: +44(0)16 85 81 54 00

2 Hazards identification

• Hazard description:

F+ Extremely flammable

· 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.

R 12 Extremely flammable.

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

R 66 *Repeated exposure may cause skin dryness or cracking.*

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.

Keep out of the reach of children

• Classification system:

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

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)).

Classification with R65 is not required since the product is an aerosol.

3 Composition/information on ingredients

· Chemical characterization

· Description: Mixture of substances listed below with nonhazardous additions.

	· Dangerous components:		
Γ		Naphtha (Petroleum) hydrotreated heavy	10-25%
	EINECS: 265-150-3	🗙 Xn; R 10-65-66	
Γ		propane	10-25%
	EINECS: 200-827-9	• F+; R 12	
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CAS: 106-97-8 butane	10-25%
EINECS: 203-448-7 🔥 F+; R 12	
CAS: 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy	10-25%
EINECS: 265-185-4 🔀 Xn, 🏪 N; R 10-51/53-65-66-67	

• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

• After inhalation: Supply fresh air or oxygen; call for doctor.

- After skin contact: Remove contaminated clothing. Wash skin with soap and water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Seek medical treatment.

5 Fire-fighting measures

• Suitable extinguishing agents: Foam Fire-extinguishing powder Carbon dioxide Water haze

· For safety reasons unsuitable extinguishing agents: Water with full jet

· Protective equipment: No special measures required.

6 Accidental release measures

· Person-related safety precautions:

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

· Handling:

• Information for safe handling: Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. 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.

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- 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. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
 - \cdot Maximum storage temperature: $< 30^{\circ}C$

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

64742-48-9 Naphtha (Petroleum) hydrotreated heavy

WEL Long-term value: 1000 mg/m³

106-97-8 butane

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)

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

OEL Short-term value: 580 mg/m³, 100 ppm Long-term value: 350 mg/m³, 50 ppm EU HSPA

• Additional information: The lists valid during the making were used as basis.

- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:



Protective gloves

· Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

9 Physical and chemical properties		
· General Information		
Form:	Aerosol	
Colour:	Transparent	
Odour:	Solvent-like	
· Change in condition		
Melting point/Melting range:		
Boiling point/Boiling range:	Not applicable, as aerosol.	
Flash point:	-97°C	
· Ignition temperature:	240.0°C	
· 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:	10.9 Vol %	
• Vapour pressure at 20°C:	4500 hPa	
· Density at 20°C:	0.736 g/cm ³	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Solvent content:		
Organic solvents:	68.4 %	
· Solids content:	31.6 %	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

 \cdot **Dangerous reactions** No dangerous reactions known.

• Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:				
64742-48-9 Naphtha (petroleum), hydrotreated heavy				
Oral	LD50	>5000 mg/kg (rat)		
Dermal	LD50	>3000 mg/kg (rab)		
Inhalative	LC50/4h	10 mg/l (RAT)		
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Manhthal	(Contd. of page	
	petroleum), hydrodesulfurized heavy, cas nr 64742-82-1	
Oral	LD50 > 2000 mg/kg (rat)	
Dermal	LD50 >2000 mg/kg (rabbit)	
	LC50/4h >5000 ppm (rat)	
Primary in on the ski	ritant effect:	
Degreases combinati on the eye Sensitizati Inhalation May cause may deter cause perr Ingestion: Risk of che	the skin which with long or often repeated contact may cause reddening and sometimes eczema. n with bad personal hygiene, it may cause dermatitis, oil acne or other skin changes. Irritation to eyes possible after a long exposure time. m: No sensitizing effects known. headache, dizziness, tiredness and indisposition. At high concentrations reaction time and memo orate and unconsciousness may occur. Long or often repeated inhalation of high concentrations m anent damage to the nervous system. mical pneumonia if the product reaches the lungs at vomiting or similar.	
	similar symptoms as for inhalation.	
Information about elimination (persistence and degradability): Naphtha (petroleum), hydrodesulfurized heavy, cas nr 64742-82-1		
BOD28/COD 75 % (-)		
Ecotoxica	effects:	
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Ecotoxica Acquatic t Naphtha (effects: pxicity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 100 mg/l (-)	
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EcotoxicaAcquatic tNaphthaLC50log PowRemark: 1General nHarmful taWater hazDo not allDanger to	effects: poxicity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 -100 mg/l (-) 3 (-) Tarmful to fish tes: aquatic organisms rd class 2 (German Regulation) (Self-assessment): hazardous for water w product to reach ground water, water course or sewage system.	
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Ecotoxica Acquatic t Naphtha (LC50 i log Pow 2 Remark: 1 General n Harmful ta Water haz Do not all Danger to Disposal Product: Recomme	effects: particity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 100 mg/l (-) 3 (-) Tarmful to fish tes: aquatic organisms rd class 2 (German Regulation) (Self-assessment): hazardous for water w product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground. considerations dation	
Ecotoxica Acquatic t Naphtha (LC50 i log Pow 2 Remark: 1 General n Harmful ta Water haz Do not all Danger to Disposal Product: Recomme Dispose oj	effects: particity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 100 mg/l (-) 3 (-) Tarmful to fish tes: aquatic organisms rd class 2 (German Regulation) (Self-assessment): hazardous for water w product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground. considerations in accordance with Local Authority requirements	
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Ecotoxica Acquatic t Naphtha (LC50 i log Pow 2 Remark: I General n Harmful ta Water haz Do not all Danger to Dispose of Must not b European	effects: particity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 -100 mg/l (-) 3 (-) armful to fish tes: aquatic organisms rd class 2 (German Regulation) (Self-assessment): hazardous for water w product to reach ground water, water course or sewage system. drinking water if even small quantities leak into the ground. considerations in accordance with Local Authority requirements e disposed together with household garbage. Do not allow product to reach sewage system. waste catalogue	
Ecotoxica Acquatic t Naphtha (LC50 i log Pow 2 Remark: 1 General n Harmful ta Water haz Do not all Danger to Dispose a Dispose oj Must not b European 16 00 00	effects: particity: petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 petroleum), hydrodesulfurized heavy, cas nr 64742-82-1 petroleum, hydrodesulfu	

16 05 04 gases in pressure containers (including halons) containing dangerous substances

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· Uncleaned packaging	<i>;</i> :	
• Recommendation: D	isposal must be made according to official regulations.	
4 Transport inform	ation	
· Land transport ADR/	RID (cross-border)	
2/		
· ADR/RID class:	2 5F Gases.	
· Danger code (Kemler		
· UN-Number:	1950	
· Packaging group:	-	
· Hazard label	2.1	
· Description of goods:	1950 AEROSOLS	
· IMDG Class:	2.1	
· UN Number:	1950	
· Label	2.1	
· Packaging group:	-	
• EMS Number:	F- D , S - U	
• Marine pollutant:	Yes (P)	
· Proper shipping nam	e: AEROSOLS	
· Air transport ICAO-1	TI and IATA-DGR:	
2		
· ICAO/IATA Class:	2.1	
· UN/ID Number:	1950	
· Label	2.1	
• Packaging group:	- e: AEROSOLS, flammable	
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15 Regulatory information

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 \cdot Labelling according to EU guidelines:

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

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• 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.

· Safety phrases:

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

· Special labelling of certain preparations:

Contains 2-butanone oxime. May produce an allergic reaction.

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.

Keep out of the reach of children

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• Technical instructions (air):

Class	Share in %	
Ι	0.1-1	
NK	50-100	

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• EU-VOC: 68.05 %

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. Aerosol, contains 20-30% propane/butane as propellant.

· Relevant R-phrases

- 10 Flammable.
- *12 Extremely flammable.*
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Q&E Department

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• Contact: J. Maxwell

john.maxwell@eftecltd.co.uk • * Data compared to the previous version altered.

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