

Printing date 19.03.2015 Version number 19 Revision: 27.01.2015

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

- · 1.1 Product identifier
- · Trade name: DINITROL 4941 (1-20L)
- 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 Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10-52/53-66-67: Flammable. 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. Has a narcotising 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 Regulation (EC) No 1272/2008

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

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Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: DINITROL 4941 (1-20L)

· Hazard pictograms





GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

Naphtha (petroleum), hydrodesulfurized heavy

Solvent naphtha (petroleum), light arom. Solvent naphtha (petroleum), light arom.

· Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 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
- \cdot **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.

Naphtha (petroleum), hydrotreated light	10-<25%
★ Xn R65	
R10-52/53-66-67	
♠ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ STOT SE 3, H336; Aquatic Chronic 3, H412	
Naphtha (petroleum), hydrodesulfurized heavy	5-<10%
X Xn R48/20-65; № N R51/53	
R10-66-67	
 Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336 	
	Xn R65 R10-52/53-66-67 ♠ Flam. Liq. 3, H226; ♣ Asp. Tox. 1, H304; ♠ STOT SE 3, H336; Aquatic Chronic 3, H412 Naphtha (petroleum), hydrodesulfurized heavy Xn R48/20-65; ₩ N R51/53

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Trade name: DINITROL 4941 (1-20L)

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CAS: 64742-95-6 EC number: 918-668-5 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	5-<10%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ■ Xn R65; Xi R37; N R51/53 R10-66-67 ⑤ Flam. Liq. 3, H226; ⑥ Asp. Tox. 1, H304; ⑥ Aquatic Chronic 2, H411; ⑥ STOT SE 3, H335-H336	5-<10%
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-<5%

[·] 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 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.
- 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents:

Water

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:

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · 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	dients with limit values that require monitoring at the workplace:
67-56	6-1 Methanol
WEL	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk

64742-49-	0 Naphtha (petroleum), hydrotreated light	
Oral	Long-term - systemic effects, general population	300 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	300 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	300 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	900 mg/m3 (General Population)
	Long-term - systemic effects, worker	1500 mg/m3 (Worker)
64742-82-	1 Naphtha (petroleum), hydrodesulfurized heavy	
Oral	Long-term - systemic effects, general population	26 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	26 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	44 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	71 mg/m3 (General Population)
	Long-term - systemic effects, worker	330 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, general population	32 mg/m3 (General Population)
	Long-term - systemic effects, worker	150 mg/m3 (Worker)
54742-95-	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)

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Inhalative	Long-term - systemic effects, worker	150 mg/m3 (Worker)
67-56-1 M	lethanol	
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)

· PNECs

67-56-1 Methanol

Aquatic compartment - freshwater 154 mg/L (not specified) Aquatic compartment - marine water 15.4 mg/L (not specified) Aquatic compartment - sediment in marine water 570.4 mg/kg sed dw (not specified) Aquatic compartment - water, intermittent releases | 1540 mg/L (not specified) 100 mg/L (not specified) Sewage treatment plant Terrestrial compartment - soil 23.5 mg/kg dw (not specified)

- · 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.

· Respiratory protection:



Filter AX

· Protection of hands:



Protective gloves

· 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.

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.

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· Eye protection:



Tightly sealed goggles

· Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

· 9.1 Information on	hasic	nhysical	and c	homical	nronerties
· 7.1 IIIIOI III auton on	vusic	vnvsicui	unu c	nemucui	Diobellies

· General Information

· Appearance:

Form: Fluid Colour: Black

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 110 °C

• Flash point: 24 °C (DIN 53213)

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: $> 200 \, ^{\circ}C$

· 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:
 7.0 Vol %

· Vapour pressure At 20 °C: 5 hPa

· Vapour pressure At 50 °C: 30 hPa

• **Density At 20 °C:** 1.02 g/cm³ (DIN 51757)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic At 20 °C: 1700 mPas Kinematic: Not determined.

· Solvent content:

Organic solvents: 40.9 %

Solids content: 58.1 % (DIN 53216)

• 9.2 Other information No further relevant information available.

· VOC (EU): 40.94 % · VOC (EU): 417.6 g/l

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· **VOCV**: 40.94 %

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.
- · 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:

· LD/LC50 values relevant for classification:		
ATE (Acu	te Toxicity	Estimates)
Dermal	LD50	22059 mg/kg
Inhalative	LC50/4 h	84.8 mg/l

Inhalative	LC50/4 h	84.8 mg/l
64742-49-	0 Naphtha	(petroleum), hydrotreated light
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	>5000 mg/kg (RABBIT)
Inhalative	LC50/4 h	4951 mg/l (RAT)
64742-82-	1 Naphtha	(petroleum), hydrodesulfurized heavy
Oral	LD50	>5000 mg/kg (RAT)
Dermal	LD50	3400 mg/kg (RABBIT)
Inhalative	LC50/4 h	13.1 mg/l (RAT)
64742-95-	6 Solvent n	naphtha (petroleum), light arom.
Oral	LD50	3592 mg/kg (RAT)
Dermal	LD50	>3160 mg/kg (RABBIT)
Inhalative	LC50/4 h	>6193 mg/l (RAT)
64742-95-	6 Solvent n	naphtha (petroleum), light arom.
Dermal	LD50	>2000 mg/kg (RABBIT)
67-56-1 M	ethanol	
Oral	LD50	13000 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitisation: No sensitising effects known.
- · Additional toxicological information: No further relevant information available.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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

EC50/48 h 10-22 mg/l (DAPHNIA MAGNA)

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- · 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 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. Dispose of as dangerous waste.

· European	waste catalogue
	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS 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.

SECTION 14: Transport informe	ation
· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1139
· 14.2 UN proper shipping name	
$\cdot ADR$	1139 COATING SOLUTION, special provision 640E
· IMDG, IATA	COATING SOLUTION

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(Contd. of page 8) · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, IMDG, IATA III· 14.5 Environmental hazards: · Marine pollutant: No Warning: Flammable liquids. · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: F-E,S-E· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code *Not applicable.* · Transport/Additional information: $\cdot ADR$ · Limited quantities (LQ) 5L· Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category · Tunnel restriction code D/E · IMDG 5L· Limited quantities (LQ) Code: E1 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN1139, COATING SOLUTION, special provision 640E, · UN "Model Regulation": 3, III

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

02 GHS07

· Signal word Warning

· Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light Naphtha (petroleum), hydrodesulfurized heavy Solvent naphtha (petroleum), light arom. Solvent naphtha (petroleum), light arom.

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· Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

regulations.

· National regulations:

· Technical instructions (air):

Class	Share in %
Ι	1.4
NK	39.6

- · 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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
H372	Causes damage to the central nervous system through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.

R37 Irritating to respiratory system.

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

swallowed.

Harmful: danger of serious damage to health by prolonged exposure through inhalation. R48/20 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.

Harmful: may cause lung damage if swallowed. R65 Repeated exposure may cause skin dryness or cracking. R66

Vapours may cause drowsiness and dizziness. R67

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

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· 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-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 3: Acute toxicity, Hazard Category 3

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- GE