

Page 1/12

Safety data sheet

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

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

1.1 Product identifier

Trade name: DINITROL 538 PLUS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use

SU3, SU17, SU22

SU3, SU17, SU21, SU22

Product category PC1 Adhesives, sealants

Process category PROC1-5, PROC7, PROC8a, PROC8b, PROC9-11, PROC13-14, PROC 19, PROC21

Environmental release category ERC5, ERC8c, ERC8d, ERC8f

Article category Not applicable

Application of the substance / the mixture Primer

Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Hersteller/ Producer: EFTEC AG, Hofstrasse 31, CH-8590 Romanshorn

EU-Importeur/ EU-Importer: EFTEC Ltd., Rhigos/Aberdare, GB-Mid Glamorgan CF44 9UE (Responsible for

chemical registration in EU)

Lieferant/ Supplier: DINOL GmbH, Pyrmonterstrasse 76, D-32676 Lügde

Further information obtainable from: msds@dinol.com

1.4 Emergency telephone number:

UK National Poisons Information Service +44(0)8 45 46 47

USA, For help in emergency call +1-866-404-4230

SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

(Contd. on page 2)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

(Contd. of page 1)

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

Xn; Sensitising

May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36:

Irritating to eyes.



F; Highly flammable

R11: Highly flammable.

R67: 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.

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.

Hazard pictograms







GHS02

GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

butanone

HMDI-Oligomere

diphenylmethanediisocyanate,isomeres and homologues

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary statements

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

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.

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

regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 3)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

vPvB: Not applicable.

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components	s:	
CAS: 78-93-3	butanone	50-100%
EINECS: 201-159-0	Xi R36;	
	R66-67	
~ . ~	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5-<10%
EINECS: 203-603-9	R10	
	♦ Flam. Liq. 3, H226	
CAS: 28182-81-2	HMDI-Oligomere	5-<10%
NLP: 500-060-2	Xn R20; Xi R37; Xi R43	
	♦ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 123-86-4	n-butyl acetate	1-5%
EINECS: 204-658-1	R10-66-67	
	♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336	
CAS: 1330-20-7	xylene, mixture of isomers	1-5%
EINECS: 215-535-7	Xn R20/21; Xi R38 R10	
	Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues	0,1-<1%
EC number: 618-498-9	Xn R20-40-48/20; Xn R42/43; Xi R36/37/38 Carc, Cat. 3	
	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

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

After swallowing: Seek immediate medical advice.

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.

DACH

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

(Contd. of page 3)

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: No special measures required.

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:

Prevent seepage into sewage system, workpits and cellars.

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).

Dispose contaminated material as waste according to item 13.

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

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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: Store in a cool location.

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.

Maximum storage temperature: < 35 °C Minimum storage temperature: > 0 °C

Storage temperature: 0 - 35 °C

7.3 Specific end use(s) No further relevant information available.

DACH

Safety data sheet acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

(Contd. of page 4)

Additional informa	tion about design of technical facilities: No further data; see item 7.	
8.1 Control paramo	eters	
Ingredients with lin	nit values that require monitoring at the workplace:	
78-93-3 butanone		
AGW (DACH)	Long-term value: 600 mg/m³, 200 ppm 1(I);DFG, EU, H, Y	
MAK (Switzerland)	Short-term value: 590 mg/m³, 200 ppm Long-term value: 590 mg/m³, 200 ppm H B SSc;	
108-65-6 2-methox	y-1-methylethyl acetate	
AGW (DACH)	Long-term value: 270 mg/m³, 50 ppm 1(I);DFG, EU, Y	
MAK (Switzerland)	Short-term value: 275 mg/m³, 50 ppm Long-term value: 275 mg/m³, 50 ppm SSc;	
123-86-4 n-butyl a	cetate	
AGW (DACH)	Long-term value: 300 mg/m³, 62 ppm 2(I);Y, AGS	
MAK (Switzerland)	Short-term value: 960 mg/m³, 200 ppm Long-term value: 480 mg/m³, 100 ppm SSc;	
1330-20-7 xylene,	mixture of isomers	
AGW (DACH)	Long-term value: 440 mg/m³, 100 ppm 2(II);DFG, EU, H	
MAK (Switzerland)	Short-term value: 870 mg/m³, 200 ppm Long-term value: 435 mg/m³, 100 ppm H B;	
9016-87-9 dipheny	lmethanediisocyanate,isomeres and homologues	
AGW (DACH)	Long-term value: $0.05 E mg/m^3$ 1;=2=(I);DFG, H, Sah, Y, 12	
MAK (Switzerland)	Short-term value: 0,02 mg/m³ Long-term value: 0,02 mg/m³ SB;als Gesamt-NCO gemessen	
Ingredients with bi	ological limit values:	
78-93-3 butanone		
BGW (DACH)	5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 2-Butanon	
BAT (Switzerland)	5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: 2-Butanon (MEK)	

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

(Contd. of page 5) 1330-20-7 xylene, mixture of isomers BGW (DACH) 1.5 mg/lUntersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol 2 g/lUntersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure BAT (Switzerland) 1,5 g/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: Nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende Biol. Parameter: Methyl-Hippursäure 1,5 mg/l

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

Untersuchungsmaterial: Vollblut

Biol. Parameter: Xylol

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:



Use suitable respiratory protective device in case of insufficient ventilation.

Probennahmezeitpunkt: Expositionsende bzw. Schichtende

Filter A

Protection of hands:



Protective gloves (DIN EN 374)

Chemical resistant protective gloves with CE-labeling

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

Softening of the callus when wearing air-impermeable gloves is possible.

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

Material of gloves

Butyl rubber

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.

(Contd. on page 7)

Safety data sheet acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

Penetration time of glove material

(Contd. of page 6)

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

Eye protection:



Safety glasses (DIN EN 166)

Body protection:



Protective work clothing

SECTION 9: Ph	ysical and	chemical	properties
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9.1 Information on basic physical a	nd chemical properties
General Information	
Appearance:	
Form:	Liquid
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	79 °C
Flash point:	-4 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	> 300 °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:	1,8 Vol %
Upper:	11,5 Vol %
Vapour pressure at 20 °C:	105 hPa
Density at 20 °C:	0.91 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.

(Contd. on page 8)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

	(Cc	ontd. of page
Partition coefficient (n-octano	l/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	72,3 %	
Solids content:	23,5 %	
9.2 Other information	No further relevant information available.	

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: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50	LD/LC50 values relevant for classification:		
Dermal	LD50	139891 mg/kg (rabbit)	
Inhalative	LC50/4h	129 mg/l	

9016-87-9 diphenylmethanediisocyanate,isomeres and homologues		
Oral	LD50	> 10000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	> 9400 mg/kg (rabbit) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4h	310 mg/l (rat) (OECD-Prüfrichtlinie 403)

Primary irritant effect:

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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.

(Contd. on page 9)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

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

(Contd. of page 8)

SECTION 12: Ecological information

12.1 Toxicity

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Aauatic	toxicity

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

LC50/96h (static) > 1000 mg/l (fish) (OECD-Prüfrichtlinie 203) EC50/72h > 1640 mg/l (alga) (OECD-Prüfrichtlinie 201) EC50/24h (static) > 1000 mg/l (daphnia) (OECD-Prüfrichtlinie 202)

- 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 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.

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.

		U		U	U			0 ,
European	waste cate	alogue						
08 00 00		GS (PAINT						PPLY AND USE (MFSU) OF S), ADHESIVES, SEALANTS AND
08 04 00	wastes fr	om MFSU o	of adhesives a	ınd se	alants (including	waterpi	coofing products)
08 04 09*	waste adi	hesives and	l sealants con	tainin	g orgai	nic solvent	s or oth	er dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14	: Transport	t informatio	n
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14.1 UN-Number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name ADR	UN1866 RESIN SOLUTION (vapour pressure at 50 °C not more than 110 kPa)
IMDG, IATA	RESIN SOLUTION

(Contd. on page 10)

Safety data sheet acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

142 Tanana (11 and 11 and 12)	(Contd. of pag
14.3 Transport hazard class(es)	
ADR	
3	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3 Transmatic riquias. 3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	В
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E2
• • • • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN ''Model Regulation'':	UN 1866 RESIN SOLUTION (VAPOUR PRESSURE AT 50 °C
	NOT MORE THAN 110 KPA), 3, II

(Contd. on page 11)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 22.10.2015 Revision: 22.10.2015

Trade name: DINITROL 538 PLUS

(Contd. of page 10)

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

National regulations:

Technical instructions (air):

Class	Share in %
Ι	0.1-1
NK	50-100

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

The mixture of substances contain no SVHC (Substances of Very High Concern, http://echa.europa.eu)

EU-VOC: 72,34 %

R48/20

R66

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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
R36/37/3	8 Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.

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

Repeated exposure may cause skin dryness or cracking.

(Contd. on page 12)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Revision: 22.10.2015 *Printing date* 22.10.2015

Trade name: DINITROL 538 PLUS

R67 Vapours may cause drowsiness and dizziness. (Contd. of page 11)

Department issuing MSDS: Entwicklung

Contact: msds@dinol.com Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2