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Safety data sheet According to 91/155 EEC

Printing date 27.05.2015 Revision: 27.05.2015

Hazardous according to criteria of Australian Safety and Compensation Council

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

- · Product identifier
 - · Trade name: Signum metal bond I
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Metal-Resin Bonding System
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

- Informing department: E-Mail: msds@kulzer-dental.com
- · Emergency telephone number:

Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

2 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -

Dangerous components:		
CAS: 67-64-1	acetone	> 90%
EINECS: 200-662-2	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 64-19-7	acetic acid	< 1%
EINECS: 200-580-7	Flam. Liq. 3, H226; Skin Corr. 1A, H314	

3 Hazards identification

· Classification of the substance or mixture

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

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour.

Causes serious eve irritation.

May cause drowsiness or dizziness.

· Précautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Hazardous according to criteria of Australian Safety and Compensation Council

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

- · Product identifier
 - · Trade name: Signum metal bond II
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Metal-Resin Bonding System
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

Informing department: E-Mail: msds@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

2 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -

Dangerous components:		
	methyl methacrylate	50-75%
	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphinoxid	0-5%
EINECS: 278-355-8	Repr. 2, H361; Aquatic Chronic 3, H412	

3 Hazards identification

· Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

Acute Tox. 5 H333 May be harmful if inhaled.

- · Label elements
 - GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling: methyl methacrylate
- Hazard statements

Highly flammable liquid and vapour.

May be harmful if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

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Trade name: Signum metal bond II

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May cause respiratory irritation.

· Précautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

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

Specific treatment (see on this label).

Store locked up.

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

· Other hazards -

4 First aid measures

After inhalation

Supply fresh air.

Seek medical treatment.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

5 Firefighting measures

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

• Protective equipment: Wear self-contained breathing apparatus.

- · Additional information -

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Send for recovery or disposal in suitable containers.

Reference to other sections

See Section 13 for information on disposal.

See Section 8 for information on personal protection equipment.

7 Handling and storage

Precautions for safe handling Keep containers tightly sealed.

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Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Storage

- Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Store in cool, dry conditions in well sealed containers.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with critical values that require monitoring at the workplace:

80-62-6 methyl methacrylate

NES (Australia) Short-term value: 416 mg/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

410 mg/m³, 100 ppm PEL (USA) REL (USA) 410 mg/m³, 100 ppm

TLV (USA) Short-term value: 410 mg/m³, 100 ppm

Long-term value: 205 mg/m³, 50 ppm

SEŇ

· DNELs

80-62-6 methyl methacrylate

worker, I.te., syst. 74.3 mg/Kg/d (human) Inhalative worker, I.te., syst. 210 mg/m3 (human)

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
 - General protective and hygienic measures

Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.

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· 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.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

· Eye protection: Safety glasses

· Body protection: Protective work clothing.

Physical and chemical properties	
General Information Appearance: Form: Colour: Smell:	Fluid White Characteristic
Change in condition Melting point/Melting ra Boiling point/Boiling ra	
· Flash point:	10 °C
· Ignition temperature:	430 °C
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive powder/air mixtures is possible.
· Critical values for explosio · Lower: · Upper:	on: 2.1 Vol % 12.5 Vol %
· Steam pressure at 20 °C:	47 hPa
Density	Not determined
Solubility in / Miscibility w Water:	ith Not miscible or difficult to mix

10 Stability and reactivity

· Other information

· Conditions to be avoided: No decomposition if used and stored according to specifications.

No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None
 - Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

11 Toxicological information			
· Acute toxicity:			
LD/LC50 values that are relevant for classification:			
80-62-6 methyl methacrylate			
Oral	LD50	>5000 mg/kg (rat)	
		•	(Contd. on page 5)

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Dermal LD50 >5000 mg/kg (rab) Inhalative LC50/4 h 29.8 mg/l (rat)

- Primary irritant effect:
 - on the skin: Irritant for skin and mucous membranes.
 - · on the eye: No irritant effect.
- · Sensitization: Sensitization possible by skin contact.
- · Additional toxicological information: Irritant

12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

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

14 Transport information

· UN-Number

· ADG, IMDG, IATA 1247

· UN proper shipping name

1247 METHYL METHACRYLATE MONOMER, · ÀDĞ

STABILIZED, solution

METHYL METHACRYLATE MONOMER, STABILIZED, solution · IMDG, IATA

· Transport hazard class(es)

· ADG



· Class 3 (F1) Flammable liquids.

Label

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Trade name: Signum metal bond II

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· IMDG, IATA



ClassLabel3 Flammable liquids.3

· Packing group · ADG, IMDG, IATA //

· Environmental hazards:
· Marine pollutant:

No

· Special precautions for user Warning: Flammable liquids.

· Kemler Number: 339· EMS Number: F-E,S-E

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information: -

• UN "Model Regulation":

UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, solution, 3, II

15 Regulatory information

· GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate

· Hazard statements

Highly flammable liquid and vapour.

May be harmful if inhaled.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

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

Specific treatment (see on this label).

Store locked up.

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Trade name: Signum metal bond II

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

16 Other information

These data are based on our present knowledge. However, they 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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

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)

INDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 5: Acute toxicity, Hazard Category 5
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.

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Trade name: Signum metal bond I

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Store locked up.

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

· Other hazards -

4 First aid measures

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

5 Firefighting measures

· Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

· Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

· Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

· Additional information -

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

· Reference to other sections

See Section 13 for information on disposal.

See Section 8 for information on personal protection equipment.

7 Handling and storage

· Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage

· Requirements to be met by storerooms and containers: Store in cool location.

· Information about storage in one common storage facility: Not required.

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· Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

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

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with critical values that require monitoring at the workplace:

· Components with critical values that require monitoring at the workplace.		
67-64-1 acetone		
NES (Australia)	Short-term value: 2375 mg/m³, 1000 ppm	
	Long-term value: 1185 mg/m³, 500 ppm	
PEL (USA)	2400 mg/m³, 1000 ppm	
REL (USA)	590 mg/m³, 250 ppm	
TLV (USA)	Short-term value: 1782 mg/m³, 750 ppm	
	Long-term value: 1188 mg/m³, 500 ppm	
	BEI	
64-19-7 acetic acid		
NES (Australia)	Short-term value: 37 mg/m³, 15 ppm	
	Long-term value: 25 mg/m³, 10 ppm	
PEL (USA)	25 mg/m³, 10 ppm	
REL (USA)	Short-term value: 37 mg/m³, 15 ppm	
·	Long-term value: 25 mg/m³, 10 ppm	
TLV (USA)	Short-term value: 37 mg/m³, 15 ppm	
	Long-term value: 25 mg/m³ 10 ppm	

· DNELs

67-64-1 ad	67-64-1 acetone		
Oral	ge.pop., l.te, syst.	62 mg/Kg (nd)	
Dermal	ge.pop., l.te, syst.	62 mg/Kg/d (nd)	
	worker profess., acute, syst.	2420 mg/Kg/d (nd)	
	worker profess., I.te., syst.	186 mg/Kg/d (nd)	
Inhalative	ge.pop., l.te, syst.	200 mg/m3 (nd)	
	worker profess., l.te., syst.	1210 mg/m3 (nd)	

· Additional information: The lists that were valid during the compilation were used as basis.

· Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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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.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR PVC gloves

· Eye protection: Safety glasses

· Body protection: Protective work clothing.

9 Physical and chemical properties

or my order and oriented proportion		
· General Information · Appearance: · Form: · Colour: · Smell:	Fluid Colourless Acetone-like	
Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: 55 °C		
· Flash point:	-19 ℃	
· Ignition temperature:	465 °C	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.	
Critical values for explosion:		
· Lower: · Upper:	2.6 Vol % 13.0 Vol %	
· Steam pressure at 20 °C	: 247 hPa	
· Density	Not determined	
Solubility in / Miscibility Water: Other information	with Not miscible or difficult to mix No further relevant information available.	

10 Stability and reactivity

- · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None
 - · Additional information:

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11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-64-1 acetone

Oral LD50 5800 mg/kg (rat) Dermal LD50 20000 mg/kg (rabbit)

- · Primary irritant effect:
 - · on the eye: Irritant effect.
- · Sensitization: No sensitizing effect known.
- · Subacute to chronic toxicity:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

· Additional toxicological information: Irritant

12 Ecological information

· Aquatic toxicity:

67-64-1 acetone

EC50/48h | 6100 mg/l (daphnia) LC50/96h | 5540 mg/l (fish)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 05 06 laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

· Uncleaned packagings:

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

14 Transport information

· UN-Number

· ADG, IMDG, IATA 1090

· UN proper shipping name

· ÀDĠ 1090 ACETONE, mixture
· IMDG, IATA ACETONE, mixture

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· Transport hazard class(es)

· ADG



• Class 3 (F1) Flammable liquids. • Label 3

· IMDG, IATA



· Class 3 Flammable liquids.

· Label

· Packing group · ADG, IMDG, IATA //

· Environmental hazards:

Marine pollutant: No
 Special precautions for user Warning: Flammable liquids.

· Kemler Number: 333 · EMS Number: F-E,S-D

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable.

· Transport/Additional information:

· ADG

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· UN "Model Regulation": UN1090, ACETONE, mixture, 3, II

15 Regulatory information

· GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapour. Causes serious eye irritation.

May cause drowsiness or dizziness.

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Precautionary statements

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

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

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

16 Other information

These data are based on our present knowledge. However, they 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.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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
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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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

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

* Data compared to the previous version altered.