



Printing date 24.08.2017 Version number 4 Revision: 24.08.2017

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

- 1.1 Product identifier
- Trade name: ergo 5011
- -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 Adhesives
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KISLING DEUTSCHLAND GmbH

Drillberg

D-97980 Bad Mergentheim

Telefon: +49-(0) 791-407 27-0 Telefax: +49-(0) 791-407 27-50

- Further information obtainable from: Safety Department
- Department issuing MSDS: ergo@kisling.com
- -1.4 Emergency telephone number: Tox Info Suisse: 145 / +41-44-2 51 51 51

SECTION 2: Hazards identification

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- 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



GHS07

- Signal word Warning
- Hazard-determining components of labelling:

ethyl 2-cyanoacrylate

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

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. P332+P313 If skin irritation occurs: Get medical advice/attention.

- Additional information:

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



GHS07

- Signal word Warning
- Hazard-determining components of labelling:

ethyl 2-cyanoacrylate

- Hazard statements Void
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- Description: Adhesive

- Dangerous components:				
CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 Reg.nr.: 01-2119527766-29-xxxx	ethyl 2-cyanoacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-<100%		
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4	1,4-dihydroxybenzene Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	0.025-<0.1%		

- 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
- **General information:** Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- 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.

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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.

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

- 5.2 Special hazards arising from the substance or mixture

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

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

Danger of forming toxic pyrolysis products.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

-5.3 Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

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

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

- 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 10 for information on "stability and reactivity".

See Section 13 for disposal information.

SECTION 7: Handling and storage

-7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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

- Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- -7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store under lock and key and out of the reach of children.

Protect from heat and direct sunlight.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 10-13

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-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

- Ingredients with limit values that require monitoring at the workplace:			
7085-85-0 ethyl 2-cyanoacrylate			
MAK (Ge	rmany) vgl.Abschn.IIb		
123-31-9	1,4-dihydroxybenzene		
MAK (Ge	rmany) als Dampf und Aerosol		
- DNELs			
7085-85-0	ethyl 2-cyanoacrylate		
Inhalative	Langzeit, Lokale Effekte	9.25 mg/m³ (all)	
		$9.25 \text{ mg/m}^3 \text{ (ber)}$	
	Langzeit, Systemische Effekte	$9.25 \text{ mg/m}^3 \text{ (all)}$	
		$9.25 \text{ mg/m}^3 \text{ (ber)}$	
123-31-9 1,4-dihydroxybenzene			
Dermal	Langzeit, Systemische Effekte	64 mg/kg bw/day (all)	
		128 mg/kg bw/day (ber)	
Inhalative	Langzeit, Lokale Effekte	$0.5 \text{ mg/m}^3 \text{ (all)}$	
		1 mg/m³ (ber)	
	Langzeit, Systemische Effekte	$1.74 \text{ mg/m}^3 \text{ (all)}$	
		7 mg/m³ (ber)	
DNECs			

- PNECs

123-31-9 1,4-dihydroxybenzene

PNEC Subwasser	0.114 mg/l
PNEC Süßwassersediment	0.00098 mg/kg Sediment

0.0114 mg/l PNEC Meerwasser

0.000129 mg/kg Boden PNEC Boden

PNEC Kläranlage 0.71 mg/l

PNEC Meerwassersediment | 0.000097 mg/kg Sediment

- Additional information:

The lists valid during the making were used as basis.

Ensure good ventilation/exhaustion at the workplace.

Relative humidity should be at least 50-60%.

-8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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 and skin.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

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- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 60 minutes (DIN EN 374):

Butyl, Nr. 0898

Permeation time / penetration time: = 30 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890 Butyl II, Nr. 0897

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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.

Permeation time / penetration time: see above (material of gloves)

- Not suitable are gloves made of the following materials: Cotton gloves
- Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties - General Information		
- Appearance:		
Form:	Fluid	
Colour:	Colourless	
- Odour:	Irritant	
- Odour threshold:	Not determined.	
- pH-value:	Not determined.	
 Change in condition Melting point/freezing point: Initial boiling point and boiling ra 	Undetermined. inge: Undetermined.	
- Flash point:	>80°C	
- Flammability (solid, gas):	Not applicable.	
- Ignition temperature:		
Decomposition temperature:	Not determined.	
- Auto-ignition temperature:	Product is not self-igniting.	
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- Explosive properties:	Product does not present an explosion hazard.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density at 20°C:	1,06g/cm³ (DIN 51757)	
- Relative density	Not determined.	
- Vapour density	Not determined.	
-Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
water:	Hydrolised.	
- Partition coefficient: n-octanol/water:	Not determined.	
- Viscosity:		
Dynamic at 25°C:	70-120mPas	
Kinematic:	Not determined.	
- 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: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with alcohols, amines, aqueous acids and alkalis.

- 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 products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

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

- LD/LC	- LD/LC50 values relevant for classification:			
7085-85	7085-85-0 ethyl 2-cyanoacrylate			
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)		
Dermal	LD50	LD50 >2,000 mg/kg (rab) (OECD 402)		
123-31-	123-31-9 1,4-dihydroxybenzene			
Oral	LD50	375 mg/kg (rat) (OECD 401)		
Dermal	Dermal LD50 >2,000 mg/kg (rab) (OECD 402)			

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

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- 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 respiratory irritation.

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

SECTION 12: Ecological information

-12.1 Toxicity

	- Aquatic toxicity:		
	123-31-9 1,4-dihydroxybenzene		
Ī	LC50/96 h	0.638 mg/l (Oncorhynchus mykiss)	
1	EC50/48 h	0.061 mg/l (Daphnia magna)	
İ	EC50/72 h	0.33 mg/l (Pseudokirchneriella subcapitata)	

- 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

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

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

- 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 Disposal must be made according to official regulations.

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	- 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 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)			
Ī	08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances			

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

SECTION 14: Transport information

- 14.1 UN-Number - ADR, IMDG - IATA	Void UN3334
- 14.2 UN proper shipping name - ADR, IMDG - IATA	Void Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

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- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG - Class	Void
- IATA	
- Class	9 Miscellaneous dangerous substances and articles.
- Label	9
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- IATA - Remarks:	Primary packs containing not more than 500ml ar unregulated by this mode of transport and may be shippe unrestricted.
- UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- 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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

- 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

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

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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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

- * Data compared to the previous version altered.

DEGEN





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

- 1.1 Product identifier
- Trade name: ergo 5150 flüssig
- -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 Primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KISLING DEUTSCHLAND GmbH

Drillberg

D-97980 Bad Mergentheim

Telefon: +49-(0) 791-407 27-0 Telefax: +49-(0) 791-407 27-50

- Further information obtainable from: Safety Department
- Department issuing MSDS: ergo@kisling.com
- -1.4 Emergency telephone number: Tox Info Suisse: 145 / +41-44-2 51 51 51

SECTION 2: Hazards identification

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

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

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic 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

502 GHS07

GHS08 GHS09

- Hazard-determining components of labelling:

heptane

- Hazard statements

- Signal word Danger

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P331 Do NOT induce vomiting.

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- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms









GHS02 GHS07 GHS08 GHS09

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

heptane

- Hazard statements

H304 May be fatal if swallowed and enters airways.

- Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:			
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	50-<100%	
CAS: 111-84-2 EINECS: 203-913-4	nonane Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	0.25-<1%	
CAS: 61788-93-0 EINECS: 263-020-0	Amines, coco alkyldimethyl Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	0.1-<0.25%	

⁻ 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
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

-4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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- Information for doctor:

If swallowed or in the event of vomiting, risk of product entering the lungs. This may cause chemical pneumonia or suffucation.

-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.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- -5.2 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.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

Fumes can combine with air to form an explosive mixture.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 10 for information on "stability and reactivity".

See Section 13 for disposal information.

SECTION 7: Handling and storage

-7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

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

- Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

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Trade name: ergo 5150 flüssig

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- -7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): $\boldsymbol{3}$
- -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

- Ingredients with limit values that require monitoring at the workplace:				
142-82-5 heptane				
IOELV (I	IOELV (European Union) Long-term value: 2085 mg/m³, 500 ppm			
MAK (Ge	MAK (Germany)		Long-term value: 2100 mg/m³, 500 ppm	
-		vgl.Abschn.XII		
- DNELs	- DNELs			
142-82-5 heptane				
Oral	Langzeit, Syste	mische Effekte	149 mg/kg bw/day (all)	
Dermal Langzeit, Systemische Effekte 149 mg/kg bw/day (all)		149 mg/kg bw/day (all)		

300 mg/kg bw/day (ber)

 $2,085 \text{ mg/m}^3 \text{ (ber)}$

- Additional information: The lists valid during the making were used as basis.
- -8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Inhalative Langzeit, Systemische Effekte 447 mg/m³ (all)

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 480 minutes (DIN EN 374):

Chloropren Nitril I, Nr. 0727

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

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Viton, Nr. 0890

.

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Nitril VI, Nr. 0754

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of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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.

Permeation time / penetration time: see above (material of gloves)

- Eye protection: Safety glasses

- Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

-9.1 Information on basic physical and	l chemical properties
- General Information	* *
- Appearance:	
Form:	Fluid
Colour:	Colourless
- Odour:	Petrol-like
- Odour threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ran	ge: Undetermined.
- Flash point:	-10°C (DIN 55213)
- Flammability (solid, gas):	Not applicable.
- Ignition temperature:	
Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not self-igniting.
- Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
- Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
- Vapour pressure:	Not determined.
- Density at 20°C:	0,68g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.

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- Solubility in / Miscibility with

water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:

Dynamic at 20°C: <20mPas **Kinematic:** Not determined.

- **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 and stored according to specifications.

- 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- 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 products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

May cause drowsiness or dizziness.

- 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
- Aquatic toxicity: No further relevant information available.
- 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: Very toxic for fish

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Trade name: ergo 5150 flüssig

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- Additional ecological information:

- General notes:

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

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

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

Also very poisonous for fish and plankton in water bodies.

Very toxic for 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 Disposal must be made according to official regulations.

- European waste catalogue		
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemical		
07 01 04* other organic solvents, washing liquids and mother liquors		
07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES		
07 07 00 wastes from the MFSU of fine chemicals and chemical products not otherwise specified		
07 07 04* other organic solvents, washing liquids and mother liquors		

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

SECTION 14: Transport information

- 14.1 UN-Number - ADR, IMDG, IATA	UN1206
- 14.2 UN proper shipping name - ADR	1206 HEPTANES solution, ENVIRONMENTALLY HAZARDOUS
- IMDG - IATA	HEPTANES solution, MARINE POLLUTANT HEPTANES solution

- 14.3 Transport hazard class(es)

- ADR





- IMDG





- Class 3 Flammable liquids.

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Trade name: ergo 5150 flüssig

	(Contd. of page
- Label	3
-IATA	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	Symbol (fish and tree) Symbol (fish and tree)
- Special marking (ADR):	
- 14.6 Special precautions for user	Warning: Flammable liquids.
- Danger code (Kemler): - EMS Number:	F-E,S-D
- Stowage Category	B
- 14.7 Transport in bulk according to Anne Marpol and the IBC Code	x II of Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L 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)- Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 1206 HEPTANES SOLUTION, 3, II ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- 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.

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

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H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic 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)

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

- DEGEN





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

- 1.1 Product identifier
- Trade name: ergo 5150 Aerosol
- -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 Primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KISLING DEUTSCHLAND GmbH

Drillberg

D-97980 Bad Mergentheim

Telefon: +49-(0) 791-407 27-0 Telefax: +49-(0) 791-407 27-50

- Further information obtainable from: Safety Department
- Department issuing MSDS: ergo@kisling.com
- **1.4 Emergency telephone number:** Tox Info Suisse: 145 / +41-44-2 51 51 51

SECTION 2: Hazards identification

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

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic 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

S02 GHS07

GHS08

08 GHS09

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

heptane

- Hazard statements

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

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.
 H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

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(Contd. of page 1)

- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms









GHS02 GHS07 GHS08

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

heptane

- Hazard statements

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

H304 May be fatal if swallowed and enters airways.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- Description: Active substance with propellant

- Dangerous components:		
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	30-<50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane Flam. Gas 1, H220; Acute Tox. 3, H331; Press. Gas C, H280	30-<50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas C, H280	10-<15%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Flam. Gas 1, H220; Acute Tox. 3, H331; Press. Gas C, H280	5-<10%
CAS: 111-84-2 EINECS: 203-913-4	nonane Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	0.1-<0.25%

⁻ 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
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist

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

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- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

-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.

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

-5.2 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.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

Danger of forming toxic pyrolysis products.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

Fumes can combine with air to form an explosive mixture.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 10 for information on "stability and reactivity".

See Section 13 for disposal information.

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SECTION 7: Handling and storage

-7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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

- Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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.

Do not spray onto a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

-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:

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 2 B
- -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

- Ingredien	- Ingredients with limit values that require monitoring at the workplace:		
142-82-5 l	142-82-5 heptane		
IOELV (European Union) Long-term value: 2085 mg/m³, 500 ppm			ue: 2085 mg/m³, 500 ppm
MAK (Ge	rmany)	Long-term valu vgl.Abschn.XI	ue: 2100 mg/m³, 500 ppm I
106-97-8 I	butane		
AGW (Ge	AGW (Germany) Long-term value 4(II);DFG		ue: 2400 mg/m³, 1000 ppm
74-98-6 p	ropane		
AGW (Ge	rmany)	Long-term valu 4(II);DFG	ue: 1800 mg/m³, 1000 ppm
75-28-5 is	75-28-5 isobutane		
AGW (Ge	rmany)	Long-term valu 4(II);DFG	ue: 2400 mg/m³, 1000 ppm
- DNELs	- DNELs		
142-82-5 l	142-82-5 heptane		
Oral	Langzeit, Syste	mische Effekte	149 mg/kg bw/day (all)
Dermal	Langzeit, Syste	mische Effekte	149 mg/kg bw/day (all)
			300 mg/kg bw/day (ber)
Inhalative	Langzeit, Syste	mische Effekte	447 mg/m³ (all)
			$2,085 \text{ mg/m}^3 \text{ (ber)}$

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

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Trade name: ergo 5150 Aerosol

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-8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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 and skin.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 480 minutes (DIN EN 374):

Chloropren Nitril I, Nr. 0727

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

.

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Permeation time / penetration time: = 120 minutes (DIN EN 374):

Nitril VI, Nr. 0754

.

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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.

Permeation time / penetration time: see above (material of gloves)

- Eye protection: Avoid contact with the eyes.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form: Aerosol
Colour: Transparent
- Odour: Characteristic
- Odour threshold: Not determined.

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Trade name: ergo 5150 Aerosol

	(Contd. of page 5
- pH-value:	Not determined.
- Change in condition Melting point/freezing point: Initial boiling point and boiling range	Not applicable, as aerosol. Not applicable, as aerosol.
- Flash point:	Not applicable, as aerosol.
- Flammability (solid, gas):	Not applicable.
- Ignition temperature:	
Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not self-igniting.
- Explosive properties:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even afte use. Buildup of explosive mixtures possible without sufficient ventilation.
- Explosion limits: Lower: Upper:	Not determined. Not determined.
- Vapour pressure:	Not determined.
- Density at 20°C: - Relative density - Vapour density - Evaporation rate	0,7g/cm³ Not determined. Not determined. Not applicable.
- Solubility in / Miscibility with water:	Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity: Dynamic: Kinematic: - 9.2 Other information	Not determined. Not determined. 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: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions

Danger of bursting.

Forms explosive gas mixture with air.

- 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 products of decomposition if used and stored according to specifications.

SECTION 11: Toxicological information

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

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Trade name: ergo 5150 Aerosol

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	(Common page of
- LD/LC50 values rel	evant for classification:
106-97-8 butane	
Inhalative LC50/4 h	658 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

May cause drowsiness or dizziness.

- 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
- Aquatic toxicity: No further relevant information available.
- 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: Very toxic for fish
- Additional ecological information:
- General notes:

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

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

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

Water hazard class (German Regulation) is valid for the active agent.

Also very poisonous for fish and plankton in water bodies.

Very toxic for 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** Disposal must be made according to official regulations.

	- European waste catalogue		
16 00 00 WASTES NOT OTHERWISE SPECIFIED IN TH		WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
Ī	16 05 00	gases in pressure containers and discarded chemicals	
Ī	16 05 04*	gases in pressure containers (including halons) containing hazardous substances	

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Trade name: ergo 5150 Aerosol

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

SECTION 14: Transport information	
- 14.1 UN-Number	
- ADR, IMDG, IATA	

- 14.2 UN proper shipping name

- ADR 1950 AEROSOLS, ENVIRONMENTALLY

UN1950

HAZARDOUS

AEROSOLS, MARINE POLLUTANT - IMDG

AEROSOLS, flammable - IATA

- 14.3 Transport hazard class(es)

- ADR



2 5F Gases. - Class

2.1 Label

- IMDG





- Class 2 Gases. - Label 2.1

- IATA



- Class 2.1 - Label 2.1

- 14.4 Packing group

- ADR, IMDG, IATA Void

- 14.5 Environmental hazards: Product contains environmentally hazardous substances:

heptane

- Marine pollutant: Symbol (fish and tree)

- Special marking (ADR): Symbol (fish and tree) Warning: Gases.

- 14.6 Special precautions for user

- EMS Number: F-D,S-U

- Stowage Code SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category

C, Clear of living quarters.

SG69 For AEROSOLS with a maximum capacity of 1 - Segregation Code

litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a

capacity above 1 litre: Segregation as for the appropriate

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Trade name: ergo 5150 Aerosol

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-	subdivision of class 2. For WASTE AEROSOLS Segregation as for the appropriate subdivision of class 2.
- 14.7 Transport in bulk according to A	Annex II of
Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- 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, ENVIRONMENTALL
<u>-</u>	HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Waterhazard class:

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

Water hazard class (German Regulation) is valid for the active agent.

- 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.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic 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)

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)

LC50: Lethal concentration, 50 percent

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

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Trade name: ergo 5150 Aerosol

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 – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

- 1.1 Product identifier
- Trade name: ergo 5889
- -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 Adhesives
- -1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KISLING DEUTSCHLAND GmbH

Drillberg

D-97980 Bad Mergentheim

Telefon: +49-(0) 791-407 27-0 Telefax: +49-(0) 791-407 27-50

- Further information obtainable from: Safety Department
- Department issuing MSDS: ergo@kisling.com
- -1.4 Emergency telephone number: Tox Info Suisse: 145 / +41-44-2 51 51 51

SECTION 2: Hazards identification

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- 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



GHS07

- Signal word Warning
- Hazard-determining components of labelling:

ethyl 2-cyanoacrylate

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

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. P332+P313 If skin irritation occurs: Get medical advice/attention.

- Additional information:

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



- Signal word Warning
- Hazard-determining components of labelling:

ethyl 2-cyanoacrylate

- Hazard statements Void
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- Description: Adhesive

- Dangerous components:			
CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 Reg.nr.: 01-2119527766-29-xxxx	ethyl 2-cyanoacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-<100%	
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4	1,4-dihydroxybenzene Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.025-≤0.1%	

⁻ 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
- **General information:** Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

-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.

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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.

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

- 5.2 Special hazards arising from the substance or mixture

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

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

Danger of forming toxic pyrolysis products.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

-5.3 Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

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

Avoid contact with the eyes and skin.

- 6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

- 6.3 Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

- 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 10 for information on "stability and reactivity".

See Section 13 for disposal information.

SECTION 7: Handling and storage

-7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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

- Information about fire and explosion protection: Keep ignition sources away Do not smoke.
- -7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store under lock and key and out of the reach of children.

Protect from heat and direct sunlight.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 10-13

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-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

- Ingredien	- Ingredients with limit values that require monitoring at the workplace:		
Ü	7085-85-0 ethyl 2-cyanoacrylate		
MAK (Ger	MAK (Germany) vgl.Abschn.IIb		
123-31-9	123-31-9 1,4-dihydroxybenzene		
MAK (Ge	MAK (Germany) als Dampf und Aerosol		
- DNELs	- DNELs		
7085-85-0	7085-85-0 ethyl 2-cyanoacrylate		
Inhalative	Langzeit, Lokale Effekte	9.25 mg/m³ (all)	
		$9.25 \text{ mg/m}^3 \text{ (ber)}$	
	Langzeit, Systemische Effekte	$9.25 \text{ mg/m}^3 \text{ (all)}$	
		$9.25 \text{ mg/m}^3 \text{ (ber)}$	
123-31-9	123-31-9 1,4-dihydroxybenzene		
Dermal	Langzeit, Systemische Effekte	64 mg/kg bw/day (all)	
		128 mg/kg bw/day (ber)	
Inhalative	Langzeit, Lokale Effekte	$0.5 \text{ mg/m}^3 \text{ (all)}$	
		1 mg/m³ (ber)	
	Langzeit, Systemische Effekte	$1.74 \text{ mg/m}^3 \text{ (all)}$	
		$7 \text{ mg/m}^3 \text{ (ber)}$	

- PNECs

123-31-9 1,4-dihydroxybenzene

PNEC Süßwasser	0.114 mg/l
----------------	------------

PNEC Süßwassersediment | 0.00098 mg/kg Sediment

PNEC Meerwasser 0.0114 mg/l

PNEC Boden 0.000129 mg/kg Boden

PNEC Kläranlage 0.71 mg/l

PNEC Meerwassersediment | 0.000097 mg/kg Sediment

- Additional information:

The lists valid during the making were used as basis.

Ensure good ventilation/exhaustion at the workplace.

Relative humidity should be at least 50-60%.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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 and skin.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter B

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- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 60 minutes (DIN EN 374):

Butyl, Nr. 0898

Permeation time / penetration time: = 30 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890 Butyl II, Nr. 0897

٠ _

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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.

Permeation time / penetration time: see above (material of gloves)

- Not suitable are gloves made of the following materials: Cotton gloves
- Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties - General Information	
- Appearance:	
Form:	Fluid
Colour:	Colourless
- Odour:	Irritant
- Odour threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	nge: Undetermined.
- Flash point:	>80°C
- Flammability (solid, gas):	Not applicable.
- Ignition temperature:	
Decomposition temperature:	Not determined.
- Auto-ignition temperature:	Product is not self-igniting.

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- Explosive properties:	Product does not present an explosion hazard.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density at 20°C:	1,04g/cm³ (DIN 51757)	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
water:	Hydrolised.	
- Partition coefficient: n-octanol/water:	Not determined.	
- Viscosity:		
Dynamic at 25°C:	320-420mPas	
Kinematic:	Not determined.	
- 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: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with alcohols, amines, aqueous acids and alkalis.

- 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 products of decomposition if used and stored according to specifications.

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:			
7085-85	7085-85-0 ethyl 2-cyanoacrylate		
		>5,000 mg/kg (rat) (OECD 401)	
Dermal	Dermal LD50 >2,000 mg/kg (rab) (OECD 402)		
123-31-	123-31-9 1,4-dihydroxybenzene		
Oral	LD50	375 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,000 mg/kg (rab) (OECD 402)	

- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

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

SECTION 12: Ecological information

- 12.1 Toxicity

	- Aquatic toxicity:	
	123-31-9 1,	4-dihydroxybenzene
Ī	LC50/96 h	0.638 mg/l (Oncorhynchus mykiss)
İ	EC50/48 h	0.061 mg/l (Daphnia magna)
1	EC50/72 h	0.33 mg/l (Pseudokirchneriella subcapitata)

- 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

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

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

- 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 Disposal must be made according to official regulations.

	- 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 04 00	08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)	
Ī	08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances		

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

SECTION 14: Transport information

- 14.1 UN-Number - ADR, IMDG - IATA	Void UN3334
- 14.2 UN proper shipping name - ADR, IMDG - IATA	Void Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

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- 14.3 Transport hazard class(es)	
- ADR, ADN, IMDG - Class	Void
-IATA	
- Class	9 Miscellaneous dangerous substances and articles.
- Label	9
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
-IATA	
- Remarks:	Primary packs containing not more than 500ml ar unregulated by this mode of transport and may be shippe unrestricted.
- UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- 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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

- 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

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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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

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