

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: **1LX7**  
Version: **GHS 1.0 en**

date of compilation: 2021-11-16

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

#### 1.1 Product identifier

Identification of the substance **Ninhydrin in petroleum ether spray solution**  
Article number **1LX7**

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

Relevant identified uses: Laboratory and analytical use  
Laboratory chemical  
Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

#### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	Aerosols	1	Aerosol 1	H222,H229
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

##### Supplemental hazard information

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

For full text of abbreviations: see SECTION 16

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### 2.2 Label elements

#### Labelling

#### Signal word

Danger

#### Pictograms

GHS02, GHS07



#### Hazard statements

H222 Extremely flammable aerosol  
H229 Pressurized container: may burst if heated  
H336 May cause drowsiness or dizziness

#### Precautionary statements

##### Precautionary statements - prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P211 Do not spray on an open flame or other ignition source  
P251 Pressurized container: Do not pierce or burn, even after use

##### Precautionary statements - response

P312 Call a POISON CENTER or doctor/physician if you feel unwell

##### Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Hazardous ingredients for labelling:

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

#### Chemical identity of the main constituent

"UVCB substance" (substance of unknown or variable composition).

### 3.2 Mixtures

# Safety data sheet Safety data sheet






acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		50 – < 55	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 EUH066	  	
Ethanol	CAS No 64-17-5	1 – < 5	Flam. Liq. 2 / H225 Eye Irrit. 2A / H319	 	IARC: 1

#### Notes

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Vomiting, Dizziness, Drowsiness, Narcosis

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media



##### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, dry extinguishing powder, BC-powder

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible.

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures



##### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

No special measures are necessary.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### National limit values

##### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [mg/m <sup>3</sup> ]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
AU	dimethyl ether	115-10-6	WES	760	950			WES
AU	ethyl alcohol (ethanol)	64-17-5	WES	1,880				WES

##### Notation

Ceiling-C  
STEL

Ceiling value is a limit value above which exposure should not occur  
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		DNEL	5,306 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		DNEL	13,964 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethanol	64-17-5	DNEL	1,900 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Ethanol	64-17-5	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethanol	64-17-5	PNEC	0.79 mg/cm <sup>3</sup>	unknown	marine water	intermittent release
Ethanol	64-17-5	PNEC	2.75 mg/cm <sup>3</sup>	unknown	air	intermittent release
Ethanol	64-17-5	PNEC	3.6 mg/cm <sup>3</sup>	unknown	freshwater sediment	intermittent release
Ethanol	64-17-5	PNEC	580 mg/cm <sup>3</sup>	unknown	sewage treatment plant (STP)	intermittent release
Ethanol	64-17-5	PNEC	0.63 mg/cm <sup>3</sup>	unknown	soil	intermittent release
Ethanol	64-17-5	PNEC	0.96 mg/cm <sup>3</sup>	unknown	freshwater	intermittent release

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### • type of material

NBR: acrylonitrile-butadiene rubber, Butyl caoutchouc (butyl rubber)

### • material thickness

>0,4 mm 0,7mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at:

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid gaseous
Form	spray aerosol
Colour	colourless
Odour	characteristic
Melting point/freezing point	-153.6 °C at 101.3 kPa (data apply to the main component)
Boiling point or initial boiling point and boiling range	-24.9 °C (data apply to the main component)
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	57 g/m <sup>3</sup> (LEL) - 360 g/m <sup>3</sup> (UEL) / 1.1 vol% (LEL) - 27.7 vol% (UEL)
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not relevant
<u>Solubility(ies)</u>	
Water solubility	not determined

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: **1LX7**

### Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure 5,200 hPa at 20 °C

Density ~ 0.63 g/cm<sup>3</sup> at 20 °C

Relative vapour density information on this property is not available

Particle characteristics not relevant (aerosol)

### Other safety parameters

Oxidising properties none

## 9.2 Other information

Information with regard to physical hazard classes:

### **Aerosols**

**Components(flammable)** 4 %

Other safety characteristics: There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Rubber articles, different plastics

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.



# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification acc. to GHS

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	inhalation: vapour	LC50	95.6 mg/l/4h	rat
Ethanol	64-17-5	oral	LD50	7,060 mg/kg	rat

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

##### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

##### Symptoms related to the physical, chemical and toxicological characteristics

###### • If swallowed

vomiting, aspiration hazard

###### • If in eyes

causes slight to moderate irritation

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

- **If inhaled**

headache, vertigo, drowsiness, dizziness, narcosis

- **If on skin**

has degreasing effect on the skin

- **Other information**

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethanol	64-17-5	LC50	8,140 mg/l	orfe (Leuciscus idus)	96 h
Ethanol	64-17-5	EC50	9,000 – 14,000 mg/l	daphnia magna	48 h

### Biodegradation

Data are not available.

### 12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		oxygen depletion	83 %	10 d		ECHA
Ethanol	64-17-5	biotic/abiotic	94 %	d		

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane			3.6 (pH value: 7, 20 °C)	
Ethanol	64-17-5		-0.31	

### 12.4 Mobility in soil

Data are not available.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

UN RTDG	UN 1950
IMDG-Code	UN 1950
ICAO-TI	UN 1950

### 14.2 UN proper shipping name

UN RTDG	AEROSOLS
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

### 14.3 Transport hazard class(es)

UN RTDG	2.1
IMDG-Code	2.1
ICAO-TI	2.1

### 14.4 Packing group

not assigned

### 14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment): Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: **1LX7**

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### Transport information National regulations Additional information (UN RTDG)

UN number	1950
Class	2.1
Environmental hazards	Yes Hazardous to the aquatic environment
Danger label(s)	2.1 Fish and tree



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959 UN RTDG
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Excepted quantities (EQ)	E0 UN RTDG
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Limited quantities (LQ)	1 L UN RTDG
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#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	AEROSOLS
Particulars in the shipper's declaration	UN1950, AEROSOLS, (Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane), 2.1, MARINE POLLUTANT
Marine pollutant	yes (hazardous to the aquatic environment), (Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane)
Danger label(s)	2.1, "Fish and tree"



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
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Excepted quantities (EQ)	E0
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Limited quantities (LQ)	1 L
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EmS	F-D, S-U
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Stowage category	-
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# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name	Aerosols, flammable
Particulars in the shipper's declaration	UN1950, Aerosols, flammable, 2.1
Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	2.1



Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

## SECTION 15: Regulatory information

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

There is no additional information.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### National inventories

Country	Inventory	Status
AU	AICS	not all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

### Legend

REACH Reg. REACH registered substances  
TCSI Taiwan Chemical Substance Inventory  
TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Ninhydrin in petroleum ether spray solution

article number: 1LX7

Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurized container: may burst if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.