

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Zieh- und Stanzmittel 5115, Farblos (5115.-.0137)  
Revision date : 12.03.2020  
Print date : 12.03.2020

Version (Revision) : 13.0.0 (12.2.0)

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

### 1.1 Product identifier

Zieh- und Stanzmittel 5115, Farblos (5115.-.0137)

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

Drawing and Stamping Agent. Intended purpose see product description.

#### Relevant identified uses

##### Product Categories [PC]

PC25 - PC 25 - Metal working fluids

#### Remark

The product is intended for professional use.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co. KG, Industrielack  
www.brillux-industrielack.de

**Street :** Otto-Hahn-Straße 14

**Postal code/city :** D-59423 Unna

**Telephone :** +49 2303 8805-0

**Telefax :** +49 2303 8805-119

**Information contact :** E-mail address of the competent person for safety data sheets: [sdb@brillux-industrielack.de](mailto:sdb@brillux-industrielack.de)

### 1.4 Emergency telephone number

Giftinformationszentrum-Nord (poisons centre), consultation in german and english  
Telephone: +49 551 19 24 0

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Environment (GHS09)

#### Signal word

Danger

#### Hazard components for labelling

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

#### Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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H411 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.  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P331 Do NOT induce vomiting.  
P391 Collect spillage.  
P403+P235 Store in a well-ventilated place. Keep cool.

### Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics ; REACH registration No. : 01-2119471991-29 ; EC No. : 923-037-2

Weight fraction :  $\geq 90 - < 95$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Aquatic Chronic 2 ; H411

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Symptom: Headaches, dizzinesses, effect deadening tiredness, muscle weakness, and in exceptions unconsciousness. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Wash immediately with: Water and soap Rub greasy ointment into the skin.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38,3 °C, shortness of breath, chest congestion or continued coughing or wheezing. No direct artificial respiration to be given by first aider.

#### Information to physician

Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal. Call a doctor or poison control center for guidance.

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

Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of

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coordination. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

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

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Extinguishing powder, alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), water spray.

##### Unsuitable extinguishing media

Full water jet

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

##### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and pyrolysis products, toxic.

#### 5.3 Advice for firefighters

##### Special protective equipment for firefighters

Use suitable breathing apparatus.

#### 5.4 Additional information

Vapour is flammable and heavier than air. Vapour may travel across the ground and reach remote ignition sources, causing a flashback fire danger. The product floats on water and may re-ignite on the surface of water. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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

##### For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area.

#### 6.4 Reference to other sections

None

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Protective measures

Avoid: Inhalation of vapours or spray/mists, Skin contact, Eye contact. Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Never use pressure to empty container. Only allow access to authorised staff.

##### Measures to prevent fire

# Safety Data Sheet

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Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

#### Environmental precautions

Provide for retaining containers, eg. floor pan without outflow.

#### Advices on general occupational hygiene

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

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

#### Requirements for storage rooms and vessels

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Floors should be impervious, resistant to liquids and easy to clean. Provide adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 3

#### Do not store together with

Strong acid, strong alkali, oxidising agent, food and feedingstuffs.

#### Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

**Protect against :** Heat. Humidity.

### 7.3 Specific end use(s)

Drawing and Stamping Agent. Intended purpose see product description.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 300 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : AGS

Version : 01.12.2007

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

###### Suitable eye protection

goggles (EN 166)

###### Remark

Note DGUV-Rule 112-192.

##### Skin protection

###### Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in chapter 2, according to the glove manufactures.

**Remark :** After washing hands replace lost skin fat by fat containing skin creams. Note DGUV-Rule 112-195. Note TRGS 401.

###### Body protection

**Required properties :** Antistatic, non-melting.

**Recommended material :** Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

**Remark :** Note DGUV-Rule 112-189. Note TRGS 401.

# Safety Data Sheet

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## Respiratory protection

Respiratory protection necessary at: Insufficient ventilation, insufficient exhaust or spray application. insufficient exhaust

### Suitable respiratory protection apparatus

Filter mask with filter type A for short-term work.  
European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

## Occupational exposure controls

### Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid

Colour : According to product identification.

#### Odour

Like solvent.

#### Safety relevant basis data

Melting point/melting range :			not applicable	
Initial boiling point and boiling range :	( 1013 hPa )	approx.	140 - 200 °C	
Decomposition temperature :			No data available	
Flash point :		>	23 - 60 °C	
Ignition temperature :		>	200 °C	
Lower explosion limit :		approx.	0,6 Vol-%	
Upper explosion limit :		approx.	7 Vol-%	
Vapour pressure :	( 50 °C )	<	50 hPa	
Density :	( 20 °C )		0,7 - 0,9 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		insoluble	
pH :			No data available	
log P O/W :			No data available	
Flow time :	( 20 °C )	<	13 s	DIN-cup 4 mm
Viscosity :	( 23 °C )		No data available	
Cinematic viscosity :	( 40 °C )	<=	20,5 mm <sup>2</sup> /s	
Solid content :			No data available	
Odour threshold :			No data available	
Relative vapour density :	( 20 °C )	>	1 (air = 1)	
Vapourisation rate :			No data available	
Oxidising liquids :	Not oxidising.			

### 9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

# Safety Data Sheet

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Version (Revision) : 13.0.0 (12.2.0)

Stable under recommended storage and handling conditions (see section 7).

## 10.3 Possibility of hazardous reactions

No information available.

## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Exothermic reaction with: Alkali (lye), concentrated. Acid, concentrated. Oxidizing agent.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

##### Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	not relevant
Parameter :	LD50 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg

##### Acute inhalation toxicity

Parameter :	ATEmix calculated
Exposure route :	Inhalation (vapour)
Effective dose :	not relevant
Parameter :	LC50 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 5000 mg/m <sup>3</sup>
Exposure time :	8 h

##### Assessment/classification

Vapours may cause drowsiness and dizziness.

#### Irritant and corrosive effects

##### Irritation to respiratory tract

May cause respiratory irritation.

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

#### In case of skin contact

Repeated exposure may cause skin dryness or cracking.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

# Safety Data Sheet

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## Acute (short-term) fish toxicity

Parameter : LC0 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 1000 mg/l  
Exposure time : 96 h

## Acute (short-term) daphnia toxicity

Parameter : EC0 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1000 mg/l  
Exposure time : 48 h

## Chronic (long-term) daphnia toxicity

Parameter : LOEC ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Effective dose : < 1 mg/l  
Exposure time : 21 Days

## Acute (short-term) algae toxicity

Parameter : EC0 ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1000 mg/l  
Exposure time : 72 h  
Parameter : NOELR ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1000 mg/l  
Exposure time : 72 h

## 12.2 Persistence and degradability

### Biodegradation

Biodegradable.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

### Additional information

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose according to legislation.

### Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

EWC-Code: 14 06 03. Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

##### Waste treatment options

##### Appropriate disposal / Package

Completely emptied packages can be recycled.

### 13.2 Additional information

# Safety Data Sheet

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Note sections 7 and 8.

## SECTION 14: Transport information

### 14.1 UN number

UN 1993

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )

#### Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S. ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )

#### Air transport (ICAO-TI / IATA-DGR)

FLAMMABLE LIQUID, N.O.S. ( Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 3 / N

#### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / ~~S-E~~  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 3 / N

#### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

### 14.4 Packing group

III

### 14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

##### Other regulations (EU)

##### Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### National regulations

##### Technische Anleitung Luft (TA-Luft)



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Weight fraction (Number 5.2.5. I) : < 0,5 %

### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

### Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

15. Restrictions on use

### 16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the German employers liability insurance association. DGUV: German Statutory Accident Insurance. AwSV: Ordinance on plants for the handling of substances hazardous to water. VCI: German chemical industry association. EWC: European Waste Catalogue.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Calculation method.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.