

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### 3-D Laserscanning Entspiegelungsspray

Print date: 22.01.2016

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#### 1. Identification

##### Product identifier

3-D Laserscanning Entspiegelungsspray

##### **Further trade names**

Article no (user);  
119.990.001; 119.990.004

##### Recommended use of the chemical and restrictions on use

##### **Use of the substance/mixture**

Inspection of metal surfaces

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

Company name:	Helling GmbH	
Street:	Spoekerdamm 2	
Place:	D-25436 Heidgraben	
Telephone:	+49-4122-922-0	Telefax: +49-4122-922-201
e-mail:	info@helling.de	
Internet:	www.helling.de	

**Emergency phone number:** +49-4122-922-0 (8:00 - 16:00)

#### 2. Hazard(s) identification

##### Classification of the chemical

##### **Regulation 29 CFR 1910.1200**

Hazard categories:  
Flammable aerosols: Flam. Aerosol 1  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity single exposure: STOT SE 3  
Hazard Statements:  
Extremely flammable aerosol  
Pressurised container: may burst if heated  
Causes serious eye irritation  
May cause drowsiness or dizziness

##### Label elements

##### **Regulation 29 CFR 1910.1200**

**Signal word:** Danger**Pictograms:**

##### **Hazard statements**

Extremely flammable aerosol  
Pressurised container: may burst if heated  
Causes serious eye irritation  
May cause drowsiness or dizziness

##### **Precautionary statements**

Keep out of reach of children.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Use only outdoors or in a well-ventilated area.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container to industrial incineration plant.

#### **Hazards not otherwise classified**

No information available.

### 3. Composition/information on ingredients

#### **Mixtures**

##### **Hazardous components**

CAS No	Components	Quantity
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	20 %

### 4. First-aid measures

#### **Description of first aid measures**

##### **General information**

First aider: Pay attention to self-protection!

##### **After inhalation**

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### **After contact with skin**

Wash with plenty of water.

##### **After ingestion**

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

Treat symptomatically.

### 5. Fire-fighting measures

#### **Extinguishing media**

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

#### **Specific hazards arising from the chemical**

Heating causes rise in pressure with risk of bursting.

#### **Additional information**

Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### 6. Accidental release measures

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/vapor/aerosol. Avoid contact with skin, eyes and clothes.

#### **Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.

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

Ventilate affected area.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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#### Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

### 7. Handling and storage

#### Precautions for safe handling

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

##### **Advice on storage compatibility**

Do not store together with: Oxidizing agent

### 8. Exposure controls/personal protection

#### Control parameters

#### Exposure limits

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
67-63-0	Isopropyl alcohol	400	980		TWA (8 h)	REL
		400	980		TWA (8 h)	REL
		500	1225		STEL (15 min)	REL
		1000	1800		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	REL
		1000	1800		TWA (8 h)	REL
106-97-8	n-Butane	800	1900		TWA (8 h)	REL

#### Biological Exposure Indices (BEI-ACGIH)

CAS No.	Substance	Determinant	Value	Test material	Sampling time
67-63-0	2-PROPANOL	Acetone	40 mg/L	urine	End of shift at end of workweek

#### Exposure controls



##### **Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray.

##### **Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. When using do not eat or drink.

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#### Eye/face protection

Wear eye/face protection.

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

(Break through time > 480 min)

(0,35 mm)

(0,5 mm)

(0,4 mm)

(Break through time > 240minutes.)

(0,5 mm)

Unsuitable material:

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.

#### Skin protection

Body protection: not required.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus: Filter type: A (color: brown)

#### Environmental exposure controls

No information available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:

Color: white

Odor: characteristic

pH-Value:

not determined

#### Changes in the physical state

Melting point/freezing point:

not determined

Initial boiling point and boiling range:

not determined

Flash point:

not determined

#### Flammability

Solid: not applicable

Gas: not applicable

#### Explosive properties

Heating causes rise in pressure with risk of bursting.

Lower explosion limits:

not determined

Upper explosion limits:

not determined

#### Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature:

not determined

#### Oxidizing properties

Not oxidizing.

Vapor pressure:

not determined

#### Test method

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Density (at 20 °C / 68 °F): 0.925 g/cm<sup>3</sup>**Solubility in other solvents**  
not determined

Partition coefficient: not determined

Vapor density: not determined

Evaporation rate: not determined

**Other information**

Solid content: ~10%

## 10. Stability and reactivity

**Conditions to avoid**

Remove all sources of ignition.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide.

## 11. Toxicological information

**Information on toxicological effects****ATEmix calculated**

Based on data for ingredients.

**Irritation and corrosivity**

Irritant effect on the skin: Not irritant.

Irritant effect to eyes: Irritant.

**Sensitizing effects**

No sensitizing effect known.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness.

**Severe effects after repeated or prolonged exposure**

No information available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

According to current knowledge not a carcinogen. According to current knowledge not mutagen. According to current knowledge not reproduction toxic.

## 12. Ecological information

**Ecotoxicity**

Aquatic toxicity: No data available

**Persistence and degradability**

The product has not been tested.

**Bioaccumulative potential**

The product has not been tested.

**Mobility in soil**

The product has not been tested.

**Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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#### 13. Disposal considerations

##### Waste treatment methods

###### **Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

###### **Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

#### 14. Transport information

##### **US DOT 49 CFR 172.101**

**UN/ID number:** UN 1950  
**Proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2.1  
 Hazard label: 2.1

##### **Marine transport (IMDG)**

**UN number:** UN 1950  
**UN proper shipping name:** AEROSOLS  
**Transport hazard class(es):** 2.1  
**Packing group:** -  
 Hazard label: 2.1



Limited quantity: See SP277  
 EmS: F-D, S-U

##### **Other applicable information**

##### **Air transport (ICAO)**

**UN number:** UN 1950  
**UN proper shipping name:** AEROSOLS, flammable  
**Transport hazard class(es):** 2.1  
 Hazard label: 2.1



Limited quantity Passenger: 30 kg G  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

##### **Other applicable information**

: Y203  
 E0

##### **Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

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**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:

Butane (106-97-8): Fire hazard

Propane (74-98-6): Fire hazard

Isopropyl alcohol (mfg-strong acid process) (67-63-0): Fire hazard, Immediate (acute) health hazard

Isobutane (75-28-5): Fire hazard

SARA Section 313 Toxic release inventory:

Isopropyl alcohol (mfg-strong acid process) (67-63-0): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(r):

Butane (106-97-8): Threshold quantities = 10,000 lbs.

Propane (74-98-6): Threshold quantities = 10,000 lbs.

Isobutane (75-28-5): Threshold quantities = 10,000 lbs.

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	4
Physical Hazard:	1
Personal Protection:	B

**NFPA Hazard Ratings**

Health:	1
Flammability:	4
Reactivity:	1
Unique Hazard:	G

**Changes**

Revision date:	06.07.2015
Revision No:	1,3
section	1

**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 Harmonized 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

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LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Other data

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.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*