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Document No.:	M0021	SDS-ID:	GB-EN/13.0

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### **1.1. Product identifier**

Product name: DP-SPRAY  
Cat. No.40600144, 40600145, 40600146, 40600147, 40600148, 40600149, 40600150, 40600151, 40600152, 40600153, 40600154, 40600155

Container size: 150 ml

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

Application: For grinding and polishing for materialographic preparations

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

Supplier: Struers A/S  
Pederstrupvej 84  
DK-2750 Ballerup  
Tel:+45 44 600 800

Responsible for safety data sheet authoring: Responsible for safety data sheet authoring: DHI  
Any questions to the contents of this safety data sheet should be sent to:  
Lisbeth.Mygind@struers.dk

### **1.4. Emergency telephone number**

Emergency telephone: +45 44 600 800  
(Only during office hours)

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

67/548/EEC: The product is classified:  
F+;R12

GHS/CLP: The product is classified:  
Flam. Aerosol 1;H222

Physical and Chemical Hazards: The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

Human health: May irritate eyes and skin. Spray mists may cause respiratory tract irritation.

Environment: The hazardous properties of the product in the environment are considered to be limited.

### 2.2. Label elements



DANGER

H222 Extremely flammable aerosol.

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 Protect from sunlight.

P412 Do not expose to temperatures exceeding 50 °C/122°F.

Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

### 2.3. Other hazards

PBT/vPvB: Not relevant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: organic solvents, abrasive and propellants.

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## 67/548/EEC:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
60-90	64-17-5	200-578-6	-	Ethanol	F;R11	
5-<10	67-63-0	200-661-7	01-2119457558-25-xxxx	Propan-2-ol	F;R11 Xi;R36 R67	
1-5	7727-37-9	231-783-9	-	Nitrogen	-	
<3	7782-40-3	231-953-2	-	Diamond	-	

## GHS/CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
60-90	64-17-5	200-578-6	-	Ethanol	Flam. Liq. 2;H225	
5-<10	67-63-0	200-661-7	01-2119457558-25-xxxx	Propan-2-ol	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	
1-5	7727-37-9	231-783-9	-	Nitrogen	-	
<3	7782-40-3	231-953-2	-	Diamond	-	

References: The full text for all R-phrases and hazard statements are displayed in section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**Burns:** Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

**Inhalation:** Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

**Skin contact:** Remove contaminated clothes and rinse skin thoroughly with water.

**Eye contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions. Do not induce vomiting.

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

**Symptoms/effects:** See section 11 for more detailed information on health effects and symptoms.

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

**Medical attention/treatments:** Not known.

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## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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

Specific hazards: The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Aerosol containers can explode when heated, due to excessive pressure build-up.

### **5.3. Advice for firefighters**

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Do not smoke or use open fire, or other sources of ignition. Avoid inhalation of vapours and aerosols and contact with skin and eyes.

### **6.2. Environmental precautions**

Environmental precautions: Avoid discharge into water courses or onto the ground.

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

Methods for cleaning up: Large quantities should not be discharged into the drain but removed with absorbing material. Do not use sawdust or other combustible material.

### **6.4. Reference to other sections**

References: For personal protection, see section 8.  
For waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Safe handling advice: Avoid inhalation of vapours and contact with skin and eyes. Observe good chemical hygiene practices.

Technical measures: Do not smoke or use open fire or other sources of ignition.

Technical precautions: Mechanical ventilation may be required.

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

Technical measures for safe storage: Follow rules for flammable liquids.

Storage conditions: Store in a cool and well-ventilated place. Avoid contact with oxidising agents.

### **7.3. Specific end use(s)**

Specific use(s): Not relevant.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>		<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
64-17-5	Ethanol	-	1000 ppm	1920 mg/m <sup>3</sup>	TWA	-	EH40
67-63-0	Propan-2-ol	-	400 ppm	999 mg/m <sup>3</sup>	TWA	-	EH40
		-	500 ppm	1250 mg/m <sup>3</sup>	STEL	15min	

### 8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and spray mist. Provide easy access to water supply or an emergency shower.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Hand protection: Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Risk of splashes: Wear face shield.

Skin protection: No special precautions.

Environmental Exposure Controls: Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance: aerosol  
Odour: odour of alcohol  
pH: Not available.  
Boiling point: Not available.  
Flash point: 13°C(liquid phase)  
Explosion limits: 3,3-19 vol%  
Relative density: Not available.  
Solubility: Miscible with water.

### 9.2. Other information

Other data: VOC (Volatile Organic Substances): 700 g/l (calculated)

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None known.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

### 10.4. Conditions to avoid

Conditions/materials to avoid: Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid contact with oxidising agents.

### 10.5. Incompatible materials

Incompatible materials: None known.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: No special precautions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Inhalation: Vapours and spray mist may irritate throat and respiratory system and cause coughing. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact: Prolonged contact may cause redness and irritation.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: Frequent inhalation of even small concentrations may cause irritability, fatigue and memory failure and eventually permanent damage to the nervous system, including the brain.

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Ecotoxicity: The environmental hazard of the product is considered to be limited.

### **12.2. Persistence and degradability**

Degradability: The product is easily biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: No data available on bioaccumulation.

### **12.4. Mobility in soil**

Mobility: No data available.

### **12.5. Results of PBT and vPvB assessment**

PBT/vPvB: Not relevant.

### **12.6. Other adverse effects**

Other adverse effects: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Do not puncture or incinerate even when empty.

Waste from residues: Used cloths, etc.  
EWC-code: 15 02 02

Contaminated packaging: Empty aerosol containers before disposal.  
EWC-code: 15 01 10

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## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN-No: 1950

### 14.2. UN proper shipping name

Proper Shipping Name: AEROSOLS

Additional IMDG information:

EmS: F-D , S-U

MFAG: 1

### 14.3. Transport hazard class(es)

Class: 2.1

### 14.4. Packing group

PG: -

### 14.5. Environmental hazards

Marine pollutant: No.

Environmentally Hazardous substance: No.

### 14.6. Special precautions for user

Special precautions: None known.

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

Transport in bulk: Not relevant.

## SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

National regulation: Statutory Instruments 2008 No. 2852 - The REACH Enforcement Regulations 2008.  
EH40/2005, Workplace exposure limits 2005, with amendments.  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).  
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.  
The Aerosol Dispensers Regulations 2009 (SI 2824).  
The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.  
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

### 15.2. Chemical Safety Assessment

CSA status: Not relevant.

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## SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements: -  
The (\*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Additional information: Classification according to Regulation (EC) No. 1272/2008:  
Calculation method.  
Bridging principle (Dilution).

### Wording of

### R-phrases/H-statements:

R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.  
[www.dhigroup.com](http://www.dhigroup.com).