

Product name: DP-SPRAY
Revision Date: 2014-09-29
Document No.: M0021

Page: 1/9
Print date: 2014-09-29
SDS-ID: GB-EN/14.0

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 metallographic 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:
Chemical.info@struers.dk

1.4. Emergency telephone number

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

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 2/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is classified:

67/548/EEC / 1999/45/EC: F+;R12

GHS/CLP: Aerosol 1;H222 - Eye Irrit. 2;H319 (*)

2.2. Label elements

(*)



Danger

| | |
|--------------------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H319 | Causes serious eye irritation. |
| 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. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

2.3. Other hazards

The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged contact may cause redness and irritation. Spray mists may cause respiratory tract irritation. (*)

PBT/vPvB: Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: organic solvents, abrasive and propellants.

67/548/EEC:

| %: | CAS-No.: | EC No.: | REACH Reg. No: | Chemical name: | Hazard classification: | Notes: |
|-------|-----------|-----------|-----------------------|----------------|------------------------|--------|
| 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 | - | |

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 3/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

GHS/CLP:

| %: | CAS-No.: | EC No.: | REACH Reg. No: | Chemical name: | Hazard classification: | Notes: |
|-------|-----------|-----------|-----------------------|----------------|--|--------|
| 60-90 | 64-17-5 | 200-578-6 | - | Ethanol | Flam. Liq. 2;H225 Eye Irrit. 2;H319 | |
| 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.

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.

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 4/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

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.

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 5/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

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> |
|-----------------|-----------------------|------------|-------------------------|------------|--------------|---------------|--------------------|
| 67-63-0 | Propan-2-ol | - | 400 ppm | 999 mg/m3 | TWA | - | EH40 |
| | | - | 500 ppm | 1250 mg/m3 | STEL | 15min | |
| 64-17-5 | Ethanol | - | 1000 ppm | 1920 mg/m3 | TWA | - | EH40 |

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: Volatile Organic Compound (VOC): 700 g/l (calculated)

SAFETY DATA SHEET

Product name: DP-SPRAY
Revision Date: 2014-09-29
Document No.: M0021

Page: 6/9
Print date: 2014-09-29
SDS-ID: GB-EN/14.0

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: Causes serious eye irritation. (*)

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.

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 7/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

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

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 8/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

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), with amendments.
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.

SAFETY DATA SHEET

| | | | |
|----------------|------------|-------------|------------|
| Product name: | DP-SPRAY | Page: | 9/9 |
| Revision Date: | 2014-09-29 | Print date: | 2014-09-29 |
| Document No.: | M0021 | SDS-ID: | GB-EN/14.0 |

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: 2, 11.

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.

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. |
| H229 | Pressurised container: May burst if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

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.