1. IDENTIFICATION

**Product identifier**

**Product name:** DP-SUSPENSION A

Cat. No. 40600347, 40600348, 40600349, 40600350, 40600351, 40600352

**Container size:** 500 ml

**Recommended use and restrictions on use**

**Application:** For grinding and polishing of materialographic specimens. (*)

**Details of the supplier of the safety data sheet**

**Supplier:** Struers Ltd

7275 West Credit Avenue

Ontario L5N 5M9 Mississauga

Canada

Tel:+1 (905) 8148855

**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: struers@struers.dk

**Emergency telephone number**

Alberta & NWT:

Poison & Drug Information Service (PADIS): 1-800-332-1414

British Columbia:

Drug and Poison Information Centre (DPIC): 604-682-5050 / 1-800-567-8911

Ontario:

Poison Centre: 1-800-268-9017

Québec:

Poison Control Centre: 1-800-463-5060

Infotrac:

1-800-535-5053

Struers CAN:

+1 (905) 8148855

(Only during office hours)
2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015:
- Flammable Liquids — Category 2
- Eye Irritation — Category 2

Label elements

Danger
H225  Highly flammable liquid and vapour.
H319  Causes serious eye irritation.

P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280  Wear protective gloves, eye and face protection.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313  If eye irritation persists: Get medical advice/attention.
P501  Dispose of contents/container in accordance with local regulations.

P233  Keep container tightly closed.
P240  Ground and bond container and receiving equipment.
P241  Use explosion-proof electrical, ventilating and lighting equipment.
P242  Use non-sparking tools.
P243  Take action to prevent static discharges.
P264  Wash contaminated skin thoroughly after handling.
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P370 + P378  In case of fire: Use alcohol resistant foam, carbon dioxide or dry powder to extinguish.
P403 + P235  Store in a well-ventilated place. Keep cool.

Other hazards
The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures. Prolonged contact may cause redness, irritation and dry skin.
PBT/vPvB:  Not Classified as PBT/vPvB by current EU criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures
The product contains: organic solvents and additives.
**SAFETY DATA SHEET**

Product name: DP-SUSPENSION A
Revision Date: 2018-11-13
Document No.: M0117
Page: 3/12
Print date: 2018-11-13
SDS-ID: CA-EN/19.0

**WHMIS 2015:**

<table>
<thead>
<tr>
<th>%:</th>
<th>CAS-No.</th>
<th>EC No.:</th>
<th>REACH Reg. No:</th>
<th>Chemical name:</th>
<th>Hazard classification:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-90</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>01-2119457610-43-xxxx</td>
<td>Ethanol</td>
<td>Flammable Liquids Category 2</td>
<td>Eye Irritation Category 2</td>
</tr>
<tr>
<td>5-&lt;10</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25-xxxx</td>
<td>Propan-2-ol</td>
<td>Flammable Liquids Category 2</td>
<td>Eye Irritation Category 2 Specific Target Organ Toxicity Single Exposure Category 3</td>
</tr>
<tr>
<td>&lt;0.5</td>
<td>7782-40-3</td>
<td>231-953-2</td>
<td>-</td>
<td>Diamond</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**4. FIRST-AID MEASURES**

**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 take along these instructions.

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

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

**Most important symptoms and effects, both acute and delayed**

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

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

**Medical attention/treatments:** Treat symptomatically.
5. FIRE-FIGHTING MEASURES

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.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the hazardous product
Specific hazards: The product is flammable. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive air mixtures even at room temperature.

Advice for fire-fighters
Protective equipment for fire-fighters: Use air-supplied respirator during fire fighting.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Protective equipment: Do not smoke or use open fire, or other sources of ignition. Avoid inhalation of vapors and contact with skin and eyes. For personal protection, see section 8. (*)

Emergency procedures: No specific recommendations. For personal protection, see section 8. (*)

Environmental precautions
Environmental precautions:

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

Reference to other items
References: For personal protection, see section 8. For waste disposal, see section 13.
7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of vapors and contact with skin and eyes. Observe good chemical hygiene practices. Take precautionary measures against static discharges.

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

Technical precautions: Local exhaust is recommended.

Conditions for safe storage, including any incompatibilities


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

Specific end-use(s)

Specific use(s): No information available.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Other provincial OEL’s may apply.

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>As: Exposure limits</th>
<th>Type: Notes</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>- 1000 ppm 1880 mg/m3</td>
<td>TWA -</td>
<td>Alberta</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>- 1000 ppm 1880 mg/m3</td>
<td>STEL -</td>
<td>BC</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>- 400 ppm 985 mg/m3</td>
<td>TWA -</td>
<td>Quebec</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>- 500 ppm 1230 mg/m3</td>
<td>STEL 15min</td>
<td>Quebec</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>- 200 ppm 492 mg/m3</td>
<td>TWA -</td>
<td>Alberta</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropanol</td>
<td>- 400 ppm 984 mg/m3</td>
<td>STEL 15min</td>
<td>BC</td>
</tr>
</tbody>
</table>

Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

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

Respiratory equipment: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2.

Hand protection: Risk of contact: Wear protective gloves. 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: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls: Not available.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

(*)

Appearance: Black/grey liquid
Odour: odour of alcohol
Odour threshold: Not available.
pH: Not relevant.
Melting point: Not available.
Boiling point: Not available.
Flash point: 12°C
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosion limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: 0.85
Solubility: Miscible with water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: Not available.
Explosive properties: Not available.
Oxidising properties: Not available.

Other information

Other data: Volatile Organic Compound (VOC): 764 g/l (calculated)
10. STABILITY AND REACTIVITY

**Reactivity**
Reactivity: No data available.

**Chemical stability**
Stability: Stable under normal temperature conditions.

**Possibility of hazardous reactions**
Hazardous Reactions: No data available.

**Conditions to avoid**
Conditions/materials to avoid: Direct sunlight. Keep away from heat, sparks and open flame.

**Incompatible materials**
Incompatible materials: Oxidizing agents.

**Hazardous decomposition products**
Hazardous decomposition products: No information available.
11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met. National Toxicology Program (NTP): No. IARC Cancer Review: Group 3 for 2-Propanol.
Reproductive Toxicity: Based on available data, the classification criteria are not met.
STOT - Single exposure: Based on available data, the classification criteria are not met.
STOT - Repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
Inhalation: Small quantities: Vapors may irritate throat and respiratory system and cause coughing.
Large quantities: Vapors may irritate throat and respiratory system and cause headache, dizziness and dullness. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. In serious cases, unconsciousness and permanent damage to the nervous system, including the brain, and liver may be seen.
Skin contact: Prolonged contact may cause redness, irritation and dry skin. Contains 2-propanol which may penetrate the skin.
Ingestion: May irritate and cause malaise.
Specific effects: Frequent inhalation of even small concentrations may cause irritability, fatigue, memory failure and in time permanent damage to the nervous system, including the brain, and possibly kidneys, too.
12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity: The product is not expected to be hazardous to the environment.

Persistence and degradability
Degradability: The product is 80% biodegradable.

Bioaccumulative potential
Bioaccumulative potential: Bioaccumulation: Is not expected to be bio-accumulable.

Mobility in soil
Mobility: The product is miscible with water. May spread in water systems. The product contains organic solvents which will evaporate easily from all surfaces. No data available.

Results of PBT and vPvB assessment
PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other adverse effects
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Contaminated packaging: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
14. TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA).

**UN number**

UN-No: 1993

**UN proper shipping name**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S (Ethanol, Isopropylalcohol Mixture)

Additional IMDG information:
EmS: F-E, S-E
MFAG: 1

**Transport hazard class(es)**

Class: 3

**Packing group**

PG: II

**Environmental hazards**

Marine pollutant: No.
Environmentally Hazardous substance: No.

**Special precautions for user**

Special precautions: None known.

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

Transport in bulk: Not relevant
15. REGULATORY INFORMATION

Safety, health and environmental regulations specific to the product

Special provisions: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

DSL: All chemicals included in the product are DSL listed or exempt.

National regulation:

Hazardous Products Regulations, with amendments.
Department of Justice. IDL – Ingredient Disclosure List. SOR/88-64, 31 December 1987, with amendments.
Quebec: Regulation respecting the quality of the work environment, with amendments (2013-12-13).
Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments (2016).

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: 1, 6, 9.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Additional information: Classification according to WHMIS 2015:
Calculation method.

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.