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

1.1. Product identifier
Product name : AVERY DENNISON SURFACE CLEANER
Product code : CA3750001

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

1.3. Details of the supplier of the safety data sheet
Supplier : Avery Dennison Graphics Solutions
Willem Einthovenstraat 11
2342 BH Oegstgeest, The Netherlands
Telephone : +31-71-342 16 61
Fax : +31-71-342 15 94
E-mail : peter.kuivenhoven@eu.averydennison.com

1.4. Emergency telephone number
EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
NL - Telephone : +31-71-342 16 61 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
(24/7)

SECTION 2  HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Human health hazards : Causes serious eye irritation. May cause sensitisation by skin contact. Vapours may cause drowsiness and dizziness.

Physical/chemical hazards : Flammable.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other information : Keep out of the reach of children. Avoid contact with skin. Wear suitable gloves. Do not breathe spray. Use only in well-ventilated areas.

2.2. Label elements
Label elements (1272/2008/EC):
Hazard pictograms :

Signal word : Danger

H- and P-phrases : H225 Highly flammable liquid and vapour.
                 H317 May cause an allergic skin reaction.
                 H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370+P378 In case of fire: Use carbon dioxide (CO2), alcohol resistant foam, dry chemical or water fog to extinguish.
P261 spray Avoid breathing spray.
P280 hands Wear protective gloves and eye protection.
eyes
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an approved waste disposal plant.

Additional labelling
- Contains: d-Limonene
- Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text: Contains: Propan-2-ol
- 5 % of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description: Mixture.

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Concentration (w/w) (%)</th>
<th>CAS nr.</th>
<th>EC number</th>
<th>REACH nr.</th>
<th>OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>50 - 75</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>01-2119457558-25</td>
<td>#</td>
</tr>
<tr>
<td>Flam. Liq. 2; Eye Irrit. 2; STOT SE 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H225; H319; H336</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d-Limonene</td>
<td>1 - 5</td>
<td>5989-27-5</td>
<td>227-813-5</td>
<td>01-2119529223-47 #</td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H226; H315; H317; H410</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>1 - 5</td>
<td>111-76-2</td>
<td>203-905-0</td>
<td>01-2119475108-36</td>
<td>#</td>
</tr>
<tr>
<td>Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H332; H312; H302; H319; H315</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation: Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact: Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.

Eye contact: Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.
Ingestion: Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

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

#### Effects and symptoms

- **Inhalation:** May cause headache, drowsiness, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.
- **Skin contact:** May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin and redness.
- **Eye contact:** Irritant. May cause redness and pain.
- **Ingestion:** May cause a feeling of sickness, vomiting and diarrhoea.

### SECTION 5  FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

- **Suitable:** Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.
- **Not suitable:** Water jet.

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

- **Special exposure hazards:** None known.
- **Hazardous thermal decomposition products:** Carbon monoxide may be evolved if incomplete combustion occurs.

#### 5.3. Advice for firefighters

- **Special protective equipment for fire-fighters:** Use adequate respiratory equipment in case of insufficient ventilation.

### SECTION 6  ACCIDENTAL RELEASE MEASURES

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

- **Personal precautions:** Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13. Keep away from sources of ignition — No smoking. Vapours are heavier than air. Build up (of gases) in low areas involves risk of suffocation.

#### 6.2. Environmental precautions

- **Environmental precautions:** Avoid release of product into sewers, surface water and/or ground water. Large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
- **Other information:** Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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

- **Methods for cleaning up:** Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

### SECTION 7  HANDLING AND STORAGE
7.1. Precautions for safe handling

Handling: Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic charge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Protect from sunlight.

Recommended packaging: Keep only in the original container.
Non recommended packaging: Steel (except stainless steel).

7.3. Specific end use(s)

Use: Use only as directed. Do not mix with other products.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Country</th>
<th>TWA 8 hour (mg/m³)</th>
<th>STEL 15 min (mg/m³)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>GB</td>
<td>999</td>
<td>1250</td>
<td></td>
</tr>
<tr>
<td>d-Limonene</td>
<td>GB</td>
<td>110</td>
<td>-</td>
<td>MAC: DE, CH, NL</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>GB</td>
<td>123</td>
<td>246</td>
<td>Skin; BMGV</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>GB</td>
<td>100</td>
<td>246</td>
<td>Skin</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>EC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering measures: Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures: When using do not eat, drink or smoke.

Personal protective equipment:
The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection: Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 1 hour.

Respiratory protection: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type AK (brown/green), class I or higher on e.g. a facemask in accordance with EN 140.
Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm
Indication of permeation breakthrough time: 1 hour.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is
danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Liquid.
Colour : Green.
Odour : Characteristic.
Odour threshold : Not known.
pH : 11
Solubility in water : Soluble.
Partition coefficient (n-octanol/water) : Not known.
Flash point : 22 °C (PMcc)
Auto ignition temperature : > 230 °C
Boiling point/boiling range : 82 °C
Melting point/melting range : < -20 °C
Explosion limits (in air) : Not known. Lower explosion limit in air (%): 0.7 (d-Limonene)
Oxidising properties : Not applicable.
Partition coefficient (n-octanol/water) : Not known.
Solubility in water : Soluble.
Partition coefficient (n-octanol/water) : Not known.

SECTION 10 STABILITY AND REACTIVITY

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.
11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity: Calculated LC50: 10 mg/l. Ingredients of unknown toxicity: 5 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. Target organ(s): Central nervous system. May cause headache, drowsiness, dizziness and a feeling of sickness.

Corrosion/irritation: May cause irritation to respiratory airways and coughing.

Sensitisation: Does not contain respiratory sensitisers. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity: Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation: Irritant. May cause redness.

Sensitisation: May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation: Irritant.

Ingestion

Acute toxicity: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation: May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity: Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Property</th>
<th>Method</th>
<th>Test animal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>NOAEL (oral)</td>
<td>870 mg/kg bw/d</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50 (oral)</td>
<td>4386 mg/kg bw</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LD50 (dermal)</td>
<td>12800 mg/kg bw</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>LC50 (inhalation)</td>
<td>46600 mg/m3</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>Skin irritation</td>
<td>Slightly irritant</td>
<td>OECD 404</td>
</tr>
<tr>
<td></td>
<td>Eye irritation</td>
<td>Irritant</td>
<td>OECD 405</td>
</tr>
<tr>
<td></td>
<td>NOAEL (fertility, oral)</td>
<td>407 mg/kg bw/d</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>NOAEL (development, oral)</td>
<td>400 mg/kg bw/d</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>NOEL (carcinogenicity, oral)</td>
<td>Not carcinogenic</td>
<td>OECD 416</td>
</tr>
<tr>
<td></td>
<td>Skin sensitisation</td>
<td>Not sensitizing</td>
<td>OECD 406</td>
</tr>
<tr>
<td></td>
<td>Mutagenicity</td>
<td>Negative</td>
<td>OECD 471</td>
</tr>
<tr>
<td></td>
<td>NOAEL (inhalation)</td>
<td>12500 mg/m3</td>
<td>OECD 451</td>
</tr>
<tr>
<td></td>
<td>Genotoxicity - in vivo</td>
<td>Not genotoxic</td>
<td>OECD 474</td>
</tr>
<tr>
<td></td>
<td>NOEL (carcinogenicity, inhaled)</td>
<td>Not genotoxic</td>
<td>OECD 476</td>
</tr>
</tbody>
</table>
SECTION 12  ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 15 mg/l. Calculated EC50 (waterflea): 7 mg/l.
Contains < 1 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

<table>
<thead>
<tr>
<th>Component</th>
<th>Genotoxicity - in vitro</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
<th>NOEL (oral)</th>
<th>NOAEL (oral)</th>
<th>Skin irritation</th>
<th>Skin sensitisation</th>
<th>NOAEL (development, oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-Limonene</td>
<td>Not genotoxic</td>
<td>4400 mg/kg bw</td>
<td>&gt; 2000 mg/kg bw</td>
<td>5 mg/kg bw/d</td>
<td>30 mg/kg bw/d</td>
<td>Irritant</td>
<td>10075 ug/cm²</td>
<td>600 mg/kg bw/d</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>Genotoxicity - in vivo</td>
<td>&gt; 2000 mg/kg bw/</td>
<td>Irritant</td>
<td>NOEL (carcinogenicity, oral)</td>
<td>NOAEL (development, oral)</td>
<td>Skin irritation</td>
<td>Skin sensitisation</td>
<td>NOAEL (development, oral)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 (oral)</td>
<td>NOAEL (oral)</td>
<td>NOEL (carcinogenicity, oral)</td>
<td>LD50 (oral)</td>
<td>NOAEL (dermal)</td>
<td>Skin irritation</td>
<td>Skin sensitisation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1746 mg/kg bw</td>
<td>&gt; 150 mg/kg bw/d</td>
<td>Not genotoxic</td>
<td>1746 mg/kg bw</td>
<td>Irritant</td>
<td>&lt; 69</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OECD 401</td>
<td>OECD 411</td>
<td>OECD 474</td>
<td>OECD 401</td>
<td>OECD 404</td>
<td>OECD 408</td>
<td>OECD 406</td>
</tr>
</tbody>
</table>

PRODUCT NAME: Avery Dennison Surface Cleaner
DATE OF ISSUE: 12-01-2016
REPLACES ISSUE DATED: 10-05-2012
CHESSOL SDS
SECTION 13  DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14  TRANSPORT INFORMATION

14.1. UN number
UN nr. : UN 1993

14.2. UN proper shipping name
Transport name : FLAMMABLE LIQUID, N.O.S. ( Propan-2-ol ; d-Limonene )

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards
ADR/RID (road / railway)
Class : 3
Classification code : F1
Packaging group : II
Danger label : 3 + N

IMDG (sea)
Class : 3
Packaging group : II
EmS (fire / spill) : F - E / S - E
Marine pollutant : No

IATA (air)
Class : 3

14.6. Special precautions for user
SECTION 15  REGULATORY INFORMATION

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


Other information: The packaging shall carry the text:

Ingredient declaration according to Regulation 648/2004:

<table>
<thead>
<tr>
<th>Contains</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic hydrocarbons</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>d-Limonene</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 16  OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) 1907/2006 dated 18 December 2006 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user’s obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H225  Highly flammable liquid and vapour.
H226  Flammable liquid and vapour.
H302  Harmful if swallowed.
H312  Harmful in contact with skin.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H332  Harmful if inhaled.
H336  May cause drowsiness or dizziness.
H410  Very toxic to aquatic life with long lasting effects.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE  Acute Toxicity Estimate
BCF  Bioconcentration factor
DNEL  Derived no-effect level
ECETOC TRA  European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment
EU  European Union
EUSES  European Union System for the Evaluation of Substances
IBC code  Intermediate Bulk Container
LD50 LC50  Lethal Dose/Concentration for 50% of a population
NOAEL  No Observed (Adverse) Effect Level
NOEC  No observed effect concentration
OEL  Occupational exposure limit
PBT  Persistent, Bioaccumulative and Toxic
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>Chemical product category</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted no-effect concentration</td>
</tr>
<tr>
<td>STP</td>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td>SU</td>
<td>Sector of Use</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substance of very high concern</td>
</tr>
<tr>
<td>TWA/STEL</td>
<td>Time-Weighted Average/Short Term Exposure Limit</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
</tbody>
</table>

Number format: "," used as decimal separator.

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**Date of third issue**