1 Identification

· Product identifier

· Trade name: Semi-Volatiles Standard (1X1 mL)

· Part number: US-455-1

· Relevant identified uses of the substance or mixture and uses advised against
  Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia

· Further information obtainable from:
  Telephone: 1800 802 402
  e-mail: pdl-msds_author@agilent.com
  Emergency telephone number: CHEMTREC®: +(61) - 290372994

2 Hazard(s) Identification

· Classification of the substance or mixture

  health hazard

  Muta. 1B H340 May cause genetic defects.
  Carc. 1A H350 May cause cancer.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

  Acute Tox. 4 H302 Harmful if swallowed.
  Acute Tox. 4 H312 Harmful in contact with skin.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms

  GHS07  GHS08

· Signal word Danger

· Hazard-determining components of labelling:
  dichloromethane
  4,4'-oxydianiline and its salts
Hazard statements
- Harmful if swallowed.
- Harmful in contact with skin.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause genetic defects.
- May cause cancer.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- Rinse mouth.
- IF ON SKIN: Wash with plenty of water.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
- Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Specific measures (see on this label).
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- Wash contaminated clothing before reuse.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
### Dangerous components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Hazard Phrases</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>Dichloromethane</td>
<td>STOT RE 2, H373; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</td>
<td>97.738%</td>
</tr>
<tr>
<td>53-96-3</td>
<td>2-acetylaminofluorene</td>
<td>Carc. 1A, H350; Acute Tox. 4, H302</td>
<td>0.151%</td>
</tr>
<tr>
<td>60-09-3</td>
<td>4-aminoazobenzene</td>
<td>Carc. 1B, H350</td>
<td>0.151%</td>
</tr>
<tr>
<td>90-04-0</td>
<td>2-methoxyaniline</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; Carc. 1B, H350</td>
<td>0.151%</td>
</tr>
<tr>
<td>95-79-4</td>
<td>5-chloro-o-toluidine</td>
<td>Carc. 1A, H350; Acute Tox. 4, H302</td>
<td>0.151%</td>
</tr>
<tr>
<td>120-71-8</td>
<td>6-methoxy-m-toluidine</td>
<td>Carc. 1B, H350; Acute Tox. 4, H302</td>
<td>0.151%</td>
</tr>
<tr>
<td>95-80-7</td>
<td>4-methyl-m-phenylene diamine</td>
<td>Acute Tox. 3, H301; Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 2, H373; Acute Tox. 4, H312; Skin Sens. 1, H317</td>
<td>0.151%</td>
</tr>
<tr>
<td>119-90-4</td>
<td>3,3'-dimethoxybenzidine</td>
<td>Carc. 1B, H350; Acute Tox. 4, H302</td>
<td>0.151%</td>
</tr>
<tr>
<td>99-55-8</td>
<td>5-nitro-o-toluidine</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351</td>
<td>0.151%</td>
</tr>
<tr>
<td>56-57-5</td>
<td>4-Nitroquinoline-1-oxide</td>
<td>Carc. 1A, H350</td>
<td>0.151%</td>
</tr>
<tr>
<td>101-80-4</td>
<td>4,4'-oxydiamiline and its salts</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 1B, H340; Carc. 1B, H350; Repr. 2, H361</td>
<td>0.151%</td>
</tr>
<tr>
<td>95-53-4</td>
<td>o-toluidine</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H331; Carc. 1B, H350; Eye Irrit. 2, H319; Flam. Liq. 4, H227</td>
<td>0.151%</td>
</tr>
<tr>
<td>55-18-5</td>
<td>diethyl nitrosoamine</td>
<td>Acute Tox. 3, H301; Carc. 1A, H350</td>
<td>0.151%</td>
</tr>
<tr>
<td>930-55-2</td>
<td>1-nitrosopyrrolidine</td>
<td>Carc. 1A, H350; Acute Tox. 4, H302</td>
<td>0.151%</td>
</tr>
</tbody>
</table>

### SVHC

- 60-09-3 4-aminoazobenzene
- 90-04-0 2-methoxyaniline
- 120-71-8 6-methoxy-m-toluidine
- 95-80-7 4-methyl-m-phenylene diamine
- 101-80-4 4,4'-oxydiamiline and its salts
- 95-53-4 o-toluidine

### Additional information:

For the wording of the listed hazard phrases refer to section 16.
4 First Aid Measures

· Description of first aid measures
· General information:
  Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours
  after the accident.
· After inhalation: In case of unconsciousness place patient stably in side position for transportation.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: Call for a doctor immediately.
· Information for doctor:
  · Most important symptoms and effects, both acute and delayed: No further relevant information available.
  · Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire Fighting Measures

· Extinguishing media
· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
· Special hazards arising from the substance or mixture
  During heating or in case of fire poisonous gases are produced.
· Advice for firefighters
  · Protective equipment: Mouth respiratory protective device.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures: Mount respiratory protective device.
· Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/surface or ground water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and Storage

· Handling:
· Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Open and handle receptacle with care.
  Prevent formation of aerosols.
8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- Control parameters

- Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>NES Limit Value</th>
<th>WES Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>174 mg/m³, 50 ppm</td>
<td>174 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>95-53-4</td>
<td>o-toluidine</td>
<td>8.8 mg/m³, 2 ppm</td>
<td>8.8 mg/m³, 2 ppm</td>
</tr>
</tbody>
</table>

- Additional information: The lists valid during the making were used as basis.

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the eyes and skin.
- Respiratory protection:
  - When used as intended with Agilent instruments the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
  - Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device equipment with appropriate organic or acid gas cartridge.
- Protection of hands:
  - Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
- Material of gloves
  - For normal use: nitrile rubber, 11-13 mil thickness
  - For direct contact with the chemical: butyl rubber, 12-15 mil thickness

(Contd. on page 6)
- **Penetration time of glove material**
  - For normal use: nitrile rubber: 1 hour
  - For direct contact with the chemical: butyl rubber: > 4 hours

- **Eye protection:**
  - Safety glasses
  - Tightly sealed goggles

---

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

  - **General Information**
    - **Appearance:** Fluid
    - **Form:** Fluid
    - **Colour:** Colourless
    - **Odour:** Like chlorine
    - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/freezing point:** -95.1 °C
  - **Initial boiling point and boiling range:** 40 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** 605 °C

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**
  - **Lower:** 13 Vol %
  - **Upper:** 22 Vol %

- **Vapour pressure at 20 °C:** 360 hPa

- **Density at 20 °C:** 1.3 g/cm³

- **Relative density:** Not determined.

- **Vapour density:** Not determined.

- **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with water at 20 °C:** 20 g/l

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**
  - Dynamic at 20 °C: 0.43 mPas
### 10 Stability and Reactivity

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>No further relevant information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition / conditions to be avoided</td>
<td>No decomposition if used according to specifications.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>No further relevant information available.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No dangerous decomposition products known.</td>
</tr>
</tbody>
</table>

### 11 Toxicological Information

<table>
<thead>
<tr>
<th>Information on toxicological effects</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD/LC50 values relevant for classification:</td>
<td></td>
</tr>
<tr>
<td>ATE (Acute Toxicity Estimates)</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
</tr>
<tr>
<td>75-09-2 dichloromethane</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
</tr>
<tr>
<td>53-96-3 2-acetylaminofluorene</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>90-04-0 2-methoxyaniline</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>95-79-4 5-chloro-o-toluidine</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>120-71-8 6-methoxy-m-toluidine</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>119-90-4 3,3'-dimethoxybenzidine</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>101-80-4 4,4'-oxydianiline and its salts</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
</tbody>
</table>
Trade name: Semi-Volatiles Standard (1X1 mL)

### 95-53-4 o-toluidine

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>900 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>3,244 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>862 mg/L (rat)</td>
</tr>
</tbody>
</table>

### 55-18-5 diethylnitrosoamine

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>220 mg/kg (rat)</td>
</tr>
</tbody>
</table>

### 930-55-2 1-nitrosopyrrolidine

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>900 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **Skin corrosion/irritation** Irritant to skin and mucous membranes.
  - **Serious eye damage/irritation** Irritating effect.
  - **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - **Harmful**
  - **Irritant**
  - The product can cause inheritable damage.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
  - Muta. 1B, Carc. 1A

### 12 Ecological Information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
  - **General notes:**
    - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
    - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    - Danger to drinking water if even extremely small quantities leak into the ground.
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
  - **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Trade name: Semi-Volatiles Standard (1X1 mL)

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

- Not Regulated, De minimus Quantities

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>ADG, IMDG, IATA</th>
<th>UN1590</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>ADG, IMDG, IATA</td>
<td>1590 DICHLOROANILINES, LIQUID DICHLOROANILINES, LIQUID</td>
</tr>
</tbody>
</table>

- Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADG, IMDG, IATA</th>
<th>Class 6.1 Toxic substances.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label 6.1</td>
<td></td>
</tr>
</tbody>
</table>

- Packing group

<table>
<thead>
<tr>
<th>ADG, IMDG, IATA</th>
<th>Packing group II</th>
</tr>
</thead>
</table>

- Environmental hazards:

<table>
<thead>
<tr>
<th>Warning: Toxic substances.</th>
</tr>
</thead>
</table>

### Special precautions for user

- Danger code (Kemler): 60
- EMS Number: F-A,S-A

- Transport in bulk according to Annex II of Marpol and the IBC Code

<table>
<thead>
<tr>
<th>Not applicable.</th>
</tr>
</thead>
</table>

- Transport/Additional information:

<table>
<thead>
<tr>
<th>ADG 100ml Code: E4</th>
<th>Limited quantities (LQ) Maximum net quantity per inner packaging: 1 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ) Maximum net quantity per outer packaging: 500 ml</td>
<td></td>
</tr>
</tbody>
</table>

- Transport category

| 2 | Tunnel restriction code D/E |

- IMDG

<table>
<thead>
<tr>
<th>100ml Code: E4</th>
<th>Limited quantities (LQ) Maximum net quantity per inner packaging: 1 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ) Maximum net quantity per outer packaging: 500 ml</td>
<td></td>
</tr>
</tbody>
</table>
### 15 Regulatory information

- **Australian Inventory of Chemical Substances**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
</tr>
<tr>
<td>53-96-3</td>
<td>2-acetylaminofluorene</td>
</tr>
<tr>
<td>60-09-3</td>
<td>4-aminoazobenzene</td>
</tr>
<tr>
<td>90-04-0</td>
<td>2-methoxyaniline</td>
</tr>
<tr>
<td>95-79-4</td>
<td>5-chloro-o-toluidine</td>
</tr>
<tr>
<td>95-80-7</td>
<td>4-methyl-m-phenylene diamine</td>
</tr>
<tr>
<td>119-90-4</td>
<td>3,3'-dimethoxybenzidine</td>
</tr>
<tr>
<td>99-55-8</td>
<td>5-nitro-o-toluidine</td>
</tr>
<tr>
<td>101-80-4</td>
<td>4,4'-oxydianiline and its salts</td>
</tr>
<tr>
<td>95-53-4</td>
<td>o-toluidine</td>
</tr>
</tbody>
</table>

- **Standard for the Uniform Scheduling of Medicines and Poisons**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance Name</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>S5</td>
</tr>
<tr>
<td>60-09-3</td>
<td>4-aminoazobenzene</td>
<td>S7</td>
</tr>
<tr>
<td>90-04-0</td>
<td>2-methoxyaniline</td>
<td>S7, S10</td>
</tr>
<tr>
<td>120-71-8</td>
<td>6-methoxy-m-toluidine</td>
<td>S7</td>
</tr>
<tr>
<td>95-80-7</td>
<td>4-methyl-m-phenylene diamine</td>
<td>S10</td>
</tr>
<tr>
<td>99-55-8</td>
<td>5-nitro-o-toluidine</td>
<td>S7</td>
</tr>
<tr>
<td>95-53-4</td>
<td>o-toluidine</td>
<td>S7, S10</td>
</tr>
</tbody>
</table>

- **Directive 2012/18/EU**

  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **National regulations:**

  - Additional classification according to Decree on Hazardous Materials, Annex II:
    - Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**
  - Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Other regulations, limitations and prohibitive regulations**

  - **Substances of very high concern (SVHC) according to REACH, Article 57**

    | CAS Number | Substance Name          |
    |------------|-------------------------|
    | 60-09-3    | 4-aminoazobenzene       |
    | 90-04-0    | 2-methoxyaniline        |
    | 120-71-8   | 6-methoxy-m-toluidine   |
    | 95-80-7    | 4-methyl-m-phenylene diamine |
    | 101-80-4   | 4,4'-oxydianiline and its salts |
    | 95-53-4    | o-toluidine             |

(Contd. on page 11)
Trade name: Semi-Volatiles Standard (1X1 mL)

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Relevant phrases
  H227 Combustible liquid.
  H301 Toxic if swallowed.
  H302 Harmful if swallowed.
  H311 Toxic in contact with skin.
  H312 Harmful in contact with skin.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H319 Causes serious eye irritation.
  H331 Toxic if inhaled.
  H335 May cause respiratory irritation.
  H340 May cause genetic defects.
  H341 Suspected of causing genetic defects.
  H350 May cause cancer.
  H351 Suspected of causing cancer.
  H361 Suspected of damaging fertility or the unborn child.
  H373 May cause damage to organs through prolonged or repeated exposure.

- 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
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Flam. Liq. 4: Flammable liquids – Category 4
  Acute Tox. 3: Acute toxicity – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Skin Sens. 1: Skin sensitisation – Category 1
  Mut. 1B: Germ cell mutagenicity – Category 1B
  Mut. 2: Germ cell mutagenicity – Category 2
  Carc. 1A: Carcinogenicity – Category 1A
  Carc. 1B: Carcinogenicity – Category 1B
  Carc. 2: Carcinogenicity – Category 2
  Repr. 2: Reproductive toxicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2