SECTION 1: Identification of the substance/mixture and of the company/undertaking

- English additional compounds
- 1.1 Product identifier
  - Product Name: 6020 Interference Check Solution B 100mL, Part Number 5188-6527
  - Part Number: 5188-6527
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture
  Analytical Chemistry
  A 100mL Solution
- 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Agilent Technologies Manufacturing GmbH & Co. KG
    Hewlett-Packard-Str. 8
    76337 Waldbronn
    Germany
  - Further information obtainable from: product safety department
  - 1.4 Emergency telephone number: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- 2.2 Label elements

---

**Classification according to Regulation (EC) No 1272/2008**

- **GHS05 corrosion**
  - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.

---

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

- **C; Corrosive**
  - R34: Causes burns.

---

**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

---

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

---

**2.2 Label elements**

- **Labeling according to Regulation (EC) No 1272/2008**
  The product is classified and labelled according to the CLP regulation.

---

**Hazard pictograms**

- **GHS05**

---

**Signal word Danger**

---

**Hazard-determining components of labelling:**

- nitric acid

---

**Hazard statements**

- Causes severe skin burns and eye damage.

---

**Precautionary statements**

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

---

Store locked up.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Description</th>
<th>Risk phrases</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>231-714-2</td>
<td>nitric acid</td>
<td>R35; O8; Ox. Liq. 3; H272; Skin Corr. 1A, H314</td>
<td>5.0%</td>
</tr>
<tr>
<td>7440-62-2</td>
<td>232-261-3</td>
<td>Vanadium from Ammonium trioxovanadate</td>
<td>T+ R28; Xi R36/37/38; Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td>0.002%</td>
</tr>
<tr>
<td>7440-47-3</td>
<td></td>
<td>Chromium from Chromium(III) nitrate monohydrate</td>
<td>Xi R35/36; O8; Ox. Liq. 2; H272; Skin Irrit. 2, H315; Eye Irrit. 2, H319</td>
<td>0.002%</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>231-158-0</td>
<td>cobalt</td>
<td>Xn R42/43; R53; Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 4, H413</td>
<td>0.002%</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>manganese</td>
<td>Xn R48</td>
<td>0.002%</td>
</tr>
<tr>
<td>7440-02-0</td>
<td>231-111-4</td>
<td>nickel</td>
<td>T R48/23; Xn R40; Xi R43; Carc. Cat. 3</td>
<td>0.002%</td>
</tr>
<tr>
<td>7440-42-9</td>
<td>231-957-4</td>
<td>selenium</td>
<td>T R23/25; R33-53; Acute Tox. 3, H301; Acute Tox. 3, H331; STOT Re 2, H373; Aquatic Chronic 4, H413</td>
<td>0.001%</td>
</tr>
<tr>
<td>7440-38-2</td>
<td>231-148-6</td>
<td>arsenic</td>
<td>T R23/25; N R50/53; Acute Tox. 3, H301; Acute Tox. 3, H331; STOT Re 2, H373; Aquatic Chronic 4, H413</td>
<td>0.001%</td>
</tr>
<tr>
<td>7440-43-9</td>
<td>231-152-8</td>
<td>cadmium (non-pyrophoric)</td>
<td>T+ R26; T Carc. Cat. 2 R45-48/23/25; Xn R62-68-63; N R50/53</td>
<td>0.001%</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>231-175-3</td>
<td>zinc powder - zinc dust (stabilized)</td>
<td>N R50/53; Aquatic Acute 1, H400; Aquatic Chronic 1, H410</td>
<td>0.001%</td>
</tr>
<tr>
<td>7440-22-4</td>
<td>231-131-3</td>
<td>silver</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</td>
<td>0.001%</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>water, distilled, conductivity or of similar purity</td>
<td>N R50/53</td>
<td>94.984%</td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

(Contd. on page 3)
Product Name: 6020 Interference Check Solution B 100mL, Part Number 5188-6527

40.2.6

· 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. Then consult a doctor.
· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
  - Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· 5.2 Special hazards arising from the substance or mixture No further relevant information available.
· 5.3 Advice for firefighters
  - Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralising agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
  - Information about fire - and explosion protection: No special measures required.
· 7.2 Conditions for safe storage, including any incompatibilities
· 7.3 Specific end use(s)
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep container tightly sealed.
  - 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.
· 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
  - 7697-37-2 nitric acid
    - WEL Short-term value: 2.6 mg/m³, 1 ppm
  - Additional information: The lists valid during the making were used as basis.
· 8.2 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.
Avoid contact with the eyes and skin.

- **Respiratory protection:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**

  **Protective gloves**

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

  **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

  **Tightly sealed goggles**

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**SECTION 9: Physical and chemical properties**

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

  **General Information**

  - **Appearance:**
    - Form: Liquid
    - Colour: Colourless
    - Odour: Odourless
    - Odour threshold: Not applicable.
  - **pH-value:** <1
  - **Change in condition**
    - Melting point/Melting range: 0 °C (32°F)
    - Boiling point/Boiling range: 100 °C (212°F)
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Not applicable.
  - **Ignition temperature:**
    - Decomposition temperature: Not applicable.
    - Self-igniting: Product is not selfigniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - Lower: Not applicable.
    - Upper: Not applicable.
  - **Vapour pressure at 20 °C:** 23 hPa
  - **Density:** 1.0 g/mL @ 20 °C
  - **Relative density** Not applicable.
  - **Vapour density** Not applicable.
  - **Evaporation rate** Not applicable.

---
40.2.6

- Solubility in / Miscibility with water: Miscible
- Partition coefficient (n-octanol/water): Not applicable.
- Viscosity:
  Dynamic: Not applicable.
  Kinematic: Not applicable.
- Solvent content:
  Organic solvents: 0.0 %
  Water: 95.0 %
  VOC (EC): 0.00 %
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
  on the skin: Caustic effect on skin and mucous membranes.
  on the eye: Strong caustic effect.
- 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:
  Corrosive
  Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Additional ecological information:
  General notes:
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Must not reach sewage water or drainage ditch undiluted or unneutralised.
  Danger to drinking water if even small quantities leak into the ground.
- 12.5 Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.
- 12.6 Other adverse effects: No further relevant information available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA UN3264

14.2 UN proper shipping name
ADR
IMDG, IATA

14.3 Transport hazard class(es)
ADR, IMDG, IATA

Class
8 Corrosive substances.

Label
8

14.4 Packing group
ADR, IMDG, IATA III

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user
Danger code (Kemler): Warning: Corrosive substances. 80 F-A,S-B Acids

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

Transport/Additional information:

ADR
Limited quantities (I/Q)
5L Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
Transport category
3 Tunnel restriction code
E

IMDG
Limited quantities (I/Q)
1L Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID SOLUTION), 8, III
SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Disclaimer: 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
  H272 May intensify fire; oxidiser.
  H314 Causes severe skin burns and eye damage.
  R35 Causes severe burns.
  R8 Contact with combustible material may cause fire.

- Department issuing SDS: product safety department
- Contact:
  Agilent Technologies Manufacturing GmbH & Co. KG
  0800 603 1000
  pdl-msds_author@agilent.com
- 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
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  VOC: Volatile Organic Compounds (USA, EU)
  Ox. Liq. 3: Oxidising Liquids, Hazard Category 3
  Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
  Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
  Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1