1 Identification

- **Product identifier**
- **Product name:** Yttrium Standard: 1000 µg/g Y in 75 cSt Hydrocarbon Oil [50g bottle]
- **Part number:** 5190-8795
- **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.
- **Application of the substance / the mixture**
  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:** 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

  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**
  - **GHS label elements**
    The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - White mineral oil, petroleum
- **Hazard statements**
  - H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  - P331 Do NOT induce vomiting.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)
3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Also contains substances at levels not considered to be hazardous.
- Dangerous components:
  - CAS: 8042-47-5
  - RTECS: PY8047000
  - White mineral oil, petroleum
  - Asp. Tox. 1, H304
  - >95%
- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures
  - After inhalation: In case of unconsciousness place patient in recovery position for transport.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing:
    - Rinse mouth. Do not induce vomiting.
    - 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 for surrounding conditions.
- Special hazards arising from the substance or mixture
  - Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment:
  - HazChem Code: N/A
  - Wear self-contained respiratory protective device.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures: Wear protective clothing.
- Environmental precautions: 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 of contaminated material as waste according to item 13.

(Contd. from page 1)
Product name: Yttrium Standard: 1000 µg/g Y in 75 cSt Hydrocarbon Oil [50g bottle]

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: Store in cool, dry place in tightly closed receptacles.
Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:
Please refer to the manufacturer’s certificate for specific storage and transport temperature conditions.
Store only in the original receptacle unless other advice is given on the CoA.
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

Information about storage in one common storage facility: Store away from foodstuffs.
Further information about storage conditions: Keep container tightly sealed.
Specific end use(s) No further relevant information available.

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:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: Lists used were valid at the time of SDS preparation.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

Respiratory protection:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

Protective gloves
Material of gloves
- Nitrile rubber, NBR
- Natural rubber, NR

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: Safety glasses

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Oily
    - Colour: Light green
    - Odour: Mineral-oil-like
    - Odour threshold: Not determined.
  - pH-value: Not determined.
- Change in condition
  - Melting point/freezing point: Not determined.
  - Initial boiling point and boiling range: 218 °C
- Flash point: 115 °C
- Flammability (solid, gas): Not determined.
- Ignition temperature: Not determined
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Not determined.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure: Not determined.
- Density at 20 °C: 0.862 g/cm³
- Relative density
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
10 Stability and Reactivity

- Reactivity
  Stable under normal conditions.
  No further relevant information available.
- Chemical stability
  Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
  Formation of toxic gases is possible during heating or in case of fire.
- Possibility of hazardous reactions
  No dangerous reactions known.
- Conditions to avoid
  Heat.
- Incompatible materials:
  Strong oxidizing agents.
- Hazardous decomposition products:
  Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological Information

- Information on toxicological effects
- Acute toxicity

  - LD/LC50 values relevant for classification:
    CAS: 8042-47-5 White mineral oil, petroleum
    Oral LD50 >5,000 mg/kg (rat)

  - Primary irritant effect:
    Skin corrosion/irritation
    Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation
    Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation
    Based on available data, the classification criteria are not met.
  - 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:

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 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
13 Disposal considerations

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

- **Uncleaned packaging**
  - **Recommendation**: Dispose of in accordance with national regulations.

14 Transport information

- **UN-Number**
  - ADG, IMDG, IATA: Not applicable
  - ADG, IMDG, IATA: Not applicable

- **Transport hazard class(es)**
  - ADG, ADN, IMDG, IATA: Not applicable

- **Packing group**
  - ADG, IMDG, IATA: Not applicable

- **Environmental hazards**
  - Not applicable.

- **Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information**
  - **ADG**
    - **Remarks**: HazChem Code: N/A
  - **UN "Model Regulation"**: Not applicable

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Australian Inventory of Chemical Substances**
    - CAS: 8042-47-5 White mineral oil, petroleum
  - **Standard for the Uniform Scheduling of Medicines and Poisons**
    - None of the ingredients is listed.
  - **Australia: Priority Existing Chemicals**
    - None of the ingredients is listed.
Safety Data Sheet
according to WHS Regulations

Printing date 20.03.2020  
Revision: 20.03.2020  
Version number 1

Product name: Yttrium Standard: 1000 µg/g Y in 75 cSt Hydrocarbon Oil [50g bottle]

- **Hazard pictograms**
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - White mineral oil, petroleum

- **Hazard statements**
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- **Precautionary statements**
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- **Directive 2012/18/EU**

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

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

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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**
  - H304 May be fatal if swallowed and enters airways.

- **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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Asp. Tox. 1: Aspiration hazard – Category 1

- **Sources**

- **Data compared to the previous version altered.** All sections have been updated.