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Safety Data Sheet

acc. to OSHA HCS

Printing date 10/05/2020

Reviewed on 09/01/2020

1 Identification

- · Product identifier
- · Product name: ES-8-1-200G 8 Elements in Polyol Ester Matrix
- **Part number:** 600-00164
- · Application of the substance / the mixture Reference material for laboratory use only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: AMETEK Spectro Scientific 1 Executive Dr. Chelmsford, MA 01824-2563 UNITED STATES OF AMERICA

Tel: +1 (978)486-0123 *Fax:* +1 (978)486-0030

- Information department: eMail: service.spectrosci@ametek.com • Emergency telephone number:
- Emergency Contact: CHEMTREC US & Canada- 800-424-9300; International +1 703-741-5970 CHEMTREC A/C 619107

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

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

· Label elements

- · GHS label elements
- *The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Danger

- · Hazard-determining components of labeling:
- SYNTHETIC POLYOL OIL
- 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.

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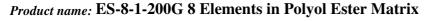
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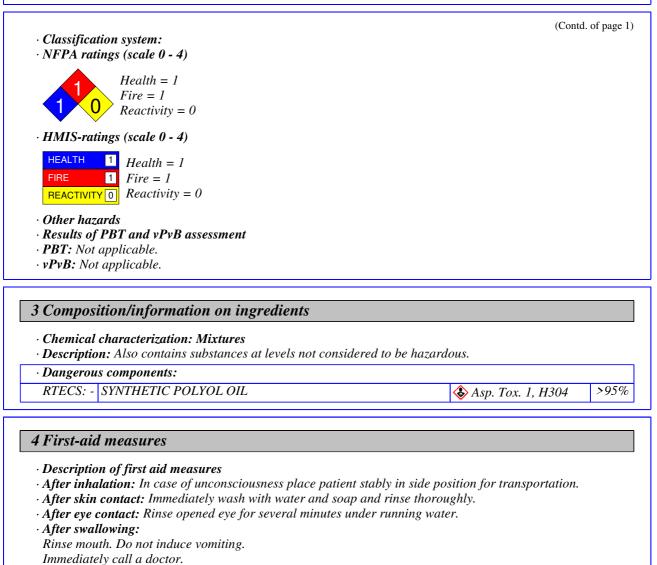
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- Information for doctor:
- · Information for accior:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.

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Product name: ES-8-1-200G 8 Elements in Polyol Ester Matrix

· Advice for firefighters

• Protective equipment: 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 contaminated material as waste according to item 13.
- 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.
- · Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

· Handling:

- Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers 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 receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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· Control parameters

· Components 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: The lists that were valid during the creation were used as basis.

- · 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.
- · Breathing equipment:

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

· 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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Not determined.	
	Not determined.	
Boiling point/Boiling range:	>300 °C (>572 °F)	



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· Flash point:	230 °C (446 °F)	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:	Not determined	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	0.99 g/cm ³ (8.26155 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	ter): >0.77815	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic at 40 °C (104 °F):	24 mm ² /s	
• Other information	No further relevant information available.	

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.

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Product name: ES-8-1-200G 8 Elements in Polyol Ester Matrix

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:	
SYNTHETIC POLYOL OIL	

 Oral
 LD50
 >2,000 mg/kg (rat)

 Dermal
 LD50
 >2,000 mg/kg (rat)

 Inhalative
 LC50/4 h
 >5.1 mg/l (rat)

· Primary irritant effect:

• on the skin: Based on available data, the classification criteria are not met.

• on the eye: Based on available data, the classification criteria are not met.

· Sensitization: Based on available data, the classification criteria are not met.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot \textit{Other adverse effects}$ No further relevant information available.



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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 packagings:
- · Recommendation: Dispose in accordance with national regulations.

UN-Number		
DOT, ADR, IMDG, IATA	Not applicable	
DOT, ADR, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group		
DOT, ADR, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- · TSCA (Toxic Substances Control Act):
- None of the ingredients is listed
- · Hazardous Air Pollutants
- None of the ingredients is listed.

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Product name: ES-8-1-200G 8 Elements in Polyol Ester Matrix

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Hazard pictograms



· Signal word Danger

• Hazard-determining components of labeling: SYNTHETIC POLYOL OIL

· 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.

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

16 Other information

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may

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(Contd. of page 8) have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (AMETEK -Spectro Scientific) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

· Date of preparation / last revision 10/05/2020 / -

· 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Asp. Tox. 1: Aspiration hazard – Category 1 · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

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

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