

Page 1/8

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

1 Identification

- · Product identifier
- · Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L
- **Part number:** 403-1040
- · 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

CHEMTREC US & Canada- 800-424-9300;

· Information department: eMail: service.spectrosci@ametek.com

International +1 703-741-5970 CHEMTREC A/C 619107

• Emergency telephone number:

Emergency Contact:

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Not applicable
- · Hazard pictograms Not applicable
- · Signal word Not applicable
- Hazard statements Not applicable
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)



Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:		
	octanoic acid	<i>< 0.1%</i>
RTECS: RH 0175000	Nin Corr. 1C, H314; Aquatic Chronic 3, H412	
	2,2,4-Trimethylpentane	<i>≤ 0.1%</i>
RTECS: SA 3320000	♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	

4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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.
- · 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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: 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 product to reach sewage system or any water course.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

(Contd. on page 3)

Page 2/8

US



Page 3/8

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

(Contd. of page 2)

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

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 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:

Store in a cool location.

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: None.
- *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.

· 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:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- 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

(Contd. on page 4)

US



Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

· Other information

Reviewed on 04/12/2021

(Contd. of page 3)

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

· 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

Physical and chemical proper	rties	
Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	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:	Not determined.	
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	t er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

No further relevant information available.

(Contd. on page 5)

US

Page 4/8



Page 5/8

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

(Contd. of page 4)

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:
- 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.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· 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.
- \cdot Additional ecological information:
- General notes: Not hazardous for water.

(Contd. on page 6)



Page 6/8

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

(Contd. of page 5)

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

· 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 of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Dispose in accordance with national regulations.

14 Transport information	
· UN-Number	
· DOT, ADR, ADN, IMDG, IATA · DOT, ADR, ADN, IMDG, IATA	Not applicable 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 MARPOL73/78 and the IBC Code	of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not applicable

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

(Contd. on page 7)

US



Page 7/8

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

		(Contd. of page 6
· TSCA (Toxic Su	bstances Control Act):	
CAS: 9002-83-9	Polychlorotrifluoroethylene	
CAS: 124-07-2	octanoic acid	
CAS: 540-84-1	2,2,4-Trimethylpentane	
· Proposition 65		
· Chemicals know	en to cause cancer:	
None of the ingr	edients is listed.	
· Chemicals know	n to cause reproductive toxicity for females:	
None of the ingr	edients is listed.	
· Chemicals know	n to cause reproductive toxicity for males:	
None of the ingr	edients is listed.	
· Chemicals know	en to cause developmental toxicity:	
None of the ingr	edients is listed.	
· Carcinogenic ca	tegories	
· EPA (Environm	ental Protection Agency)	
CAS: 540-84-1 2,2,4-Trimethylpentane		II
· TLV (Threshold	Limit Value)	· · · ·
None of the ingr	edients is listed.	
· NIOSH-Ca (Nat	tional Institute for Occupational Safety and Health)	
	edients is listed.	

· Hazard statements Not applicable

· 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 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.

· Contact:

· Date of preparation / last revision 04/12/2021 / -

US



Safety Data Sheet

acc. to OSHA HCS

Printing date 04/12/2021

Reviewed on 04/12/2021

Product name: 50:50 (w/w) isooctane/octanoic acid in S-316 set 0-2000mg/L

(Contd. of page 7) Abbreviations and acronyms: ADR: Accord relatif au transport international 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 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) 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 Flam. Liq. 2: Flammable liquids - Category 2 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 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.

Page 8/8