

SAFETY DATA SHEET

1. Identification

Product identifier	100 ppm Verification Fluid for FerroCheck	
Other means of identification		
Product code	600-00113	
Recommended use	Reference material for laboratory use only.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	AMETEK - Spectro Scientific	
Address	1 Executive Drive	
	Chelmsford, MA 01824	
	United States	
E-mail	service.spectrosci@ametek.com	
Website	www.spectrosci.com	
Telephone	+1 (978) 486-0123	
Emergency telephone	CHEMTREC	
	US & Canada 800-424-9300	
	International +1 703-741-5970	
	CHEMTREC A/C 619107	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Aspiration hazard Category 1	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Repeated exposure may cause skin dryness or cracking.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Distillates (petroleum), hydrotre light naphthenic	ated	64742-53-6	70 - 80
Distillates (petroleum), hydrotreated middle		64742-46-7	25 - 35
Distillates (pertroluem), hydrotreated light		64742-47-8	15 - 25
Butylated hydroxytoluene		128-37-0	0.25 - 1
Phenol, isobutylenated, phosph (3:1)	ate	68937-40-6	0.25 - 1
Composition commentsThe specific chemical identity and/or exact trade secret.All concentrations are in percent by weight below reportable limits.			
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical at		nd persists.
Eve contact	Rinse with water. Get medical attention if irrita	· · · · ·	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.		
Most important symptoms/effects, acute and delayed	Swallowing of the liquid, or vomiting as a result, may result in aspiration into the lungs. Aspiration may cause pulmonary edema and pneumonitis. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Repeated exposure may cause skin dryness or cracking.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
5. Fire-fighting measures			
Suitable extinguishing media	Foam. Dry chemicals. Carbon dioxide (CO2).	Sand. Earth.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters			n in case of fire.
Fire fighting equipment/instructions	Cool containers exposed to heat with water sp	pray and remove container, if	no risk is involved.
Specific methods	Use standard firefighting procedures and cons	nd consider the hazards of other involved materials.	
General fire hazards	Will burn if involved in a fire.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Lo authorities should be advised if significant spillages cannot be contained. For personal protection see section 8 of the SDS.		quate ventilation. Local
Methods and materials for containment and cleaning up	terials for Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, wh		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surf	face thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid release to the environment. Inform appr environmental releases. Prevent further leaka drains, water courses or onto the ground.	opriate managerial or supervi	sory personnel of all

7. Handling and storage

Precautions for safe handling

Avoid prolonged or repeated contact with skin. Do not taste or swallow. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in cool, dry, well ventilated area. Store in original tightly closed container. Protect from direct sunlight or ultraviolet light. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit	t Values		
Components	Туре	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3	
Distillates (pertroluem), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)	Ceiling	1800 mg/m3	
·	STEL	10 mg/m3	Mist.
Distillates (petroleum),	STEL	10 mg/m3	Mist.
hydrotreated middle (CAS 64742-46-7)			
	TWA	5 mg/m3	Mist.
64742-46-7)	TWA No biological exposure limits noted for	-	Mist.
		the ingredient(s). ed. Ventilation rates should b cal exhaust ventilation, or oth nended exposure limits. If exp	e matched to conditions. If er engineering controls to
64742-46-7) logical limit values propriate engineering trols	No biological exposure limits noted for Good general ventilation should be use applicable, use process enclosures, lo maintain airborne levels below recomn	the ingredient(s). ed. Ventilation rates should b cal exhaust ventilation, or oth nended exposure limits. If exp o an acceptable level.	e matched to conditions. If er engineering controls to

Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Full contact: Glove material: PVC, neoprene, nitrile rubber; Layer thickness: > 0.35 mm; Breakthrough time: 240 min. Splash contact: Glove material: Nitrile; Layer thickness: > 0.35 mm; Breakthrough time: 240 min. Other suitable gloves can be recommended by the glove supplier.		
Skin protection			
Other	Wear suitable protective clothing. Chemical/oil resistant clothing is recommended.		
Respiratory protection	If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Check with respiratory protective equipment suppliers.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Red.
Odor	Not available.
Odor threshold	Not available.
рН	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	<= 20.5 cm²/s (104 °F (40 °C))
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame or any other ignition source. Protect from direct

Keep away from heat, sparks and open flame or any other ignition source. Protect from direct sunlight or ultraviolet light. Contact with incompatible materials.

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Soot.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of oil mist or vapors formed during heating of the product will irritate the respiratory system and provoke coughing.		
Skin contact	Repeated exposure may cause skin dryness or cracking.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.		
Symptoms related to the physical, chemical and toxicological characteristics	Swallowing or vomiting of the liquid may result in aspiration into the lungs. Aspiration may cause pulmonary edema and pneumonitis. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Repeated exposure may cause skin dryness or cracking.		

Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

Acute toxicity				
Components	Species	Test Results		
Butylated hydroxytoluene (CAS 128-37-0)				
Acute				
Dermal				
LD50	Rat	> 2000 mg/kg		
Oral	Det	2020 mg/kg		
LD50	Rat > 2930 mg/kg			
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.			
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization				
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	Not classified.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Not classifiable as to carcinogenicity to humans.			
IARC Monographs. Overall B	Evaluation of Carcinogenicity			
Butylated hydroxytoluene Distillates (petroleum), hy (CAS 64742-46-7)				
NTP Report on Carcinogens	i			
(CAS 64742-53-6)	troleum), hydrotreated light naphthenic Known To Be Human Carcinogen. 53-6)			
	d Substances (29 CFR 1910.10	01-1053)		
Not listed.	.			
Reproductive toxicity		cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	May be fatal if swallowed and enters airways.			
Chronic effects	Prolonged inhalation may be harmful.			
Further information	Symptoms may be delayed.			
12. Ecological information	1			
Ecotoxicity	Harmful to aquatic life with long lasting effects.			

Components	Species		Test Results		
Butylated hydroxytoluene (CAS 128-37-0)					
Aquatic					
Chronic					
Crustacea	NOEC	Daphnia magna	0.07 mg/l, 21 days		
Persistence and degradability	No data available.				
Bioaccumulative potential	No data available on bioaccumulation.				
Mobility in soil	No data available for this product.				
Other adverse effects	Oil spills are generally hazardous to the environment.				
13. Disposal consideration	ons				
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.				
Local disposal regulations	Dispose in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.				
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.				
Waste from residues / unused products	Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.				

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical Classified hazard Aspiration hazard categories Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA) US state regulations

US. Massachusetts RTK - Substance List

Butylated hydroxytoluene (CAS 128-37-0) Distillates (pertroluem), hydrotreated light (CAS 64742-47-8) Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

US. New Jersey Worker and Community Right-to-Know Act

Butylated hydroxytoluene (CAS 128-37-0) Distillates (pertroluem), hydrotreated light (CAS 64742-47-8)

US. Pennsylvania Worker and Community Right-to-Know Law

Butylated hydroxytoluene (CAS 128-37-0) Distillates (pertroluem), hydrotreated light (CAS 64742-47-8) Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

US. Rhode Island RTK

Butylated hydroxytoluene (CAS 128-37-0) Distillates (pertroluem), hydrotreated light (CAS 64742-47-8) Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (pertroluem), hydrotreated light (CAS 64742-47-8) Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6) Distillates (petroleum), hydrotreated middle (CAS 64742-46-7) Phenol, isobutylenated, phosphate (3:1) (CAS 68937-40-6)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date Revision date Version # NFPA ratings 13-January-2021 -01

Disclaimer

AMETEK - Spectro Scientific cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.