

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Low Concentration Test Fluid	
Other means of identification		
Product code	29304-00, 29530-00	
Synonyms	LCS	
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	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		

Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

Mixtures			
Chemical name		CAS number	%
White mineral oil (petroleum)		8042-47-5	>99
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.		
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms	develop or persist.	

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dizziness. Swallowing of the liquid, or vomiting as a result, may result in aspiration into the lungs. Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	

Vater fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.
During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
love containers from fire area if you can do so without risk.
Jse standard firefighting procedures and consider the hazards of other involved materials.
Vill burn if involved in a fire.

## 6. Accidental release measures

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. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/perso	onal protection

## Occupational exposure limits

ccupational exposure innits				
US. OSHA Table Z-1 Limits fo	or Air Contaminants (29 CFR 1910.	1000)		
Components	Туре	Value	Form	
White mineral oil (petroleum) (CAS 8042-47-5)	PEL	5 mg/m3	Mist.	

US. ACGIH Threshold Lim Components	it Values Type	Value	Form
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide			_
Components	Туре	Value	Form
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
ppropriate engineering ontrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
ndividual protection measure	s, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves. Full contact: Glove material: PVC, neoprene, nitrile rubber. Use gloves with breakthrough time c 0.35 minutes. Minimum glove thickness 240 mm. 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 appropriate chemical resistant c	lothing. Chemical/oil resistant	t clothing is recommended.
Respiratory protection	If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approve 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. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygier and before eating, drinking, and/or sm equipment to remove contaminants.		

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Yellow
Odor	None.
Odor threshold	Not available.
рН	Not applicable.
Melting point/freezing point	-76 - 15.8 °F (-609 °C)
Initial boiling point and boiling	424 °F (217.78 °C)
range	
Flash point	233.6 °F (112.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower	Property has not been measured.
(%)	
Flammability limit - upper (%)	Property has not been measured.

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Property has not been measured.
Vapor density	Property has not been measured.
Relative density	Property has not been measured.
Solubility(ies)	
Solubility (water)	Property has not been measured.
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture.
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
Viscosity	Not available.
Other information	
Density	Property has not been measured.
Explosive properties	Not explosive.
Kinematic viscosity	< 30 mm²/s (104 °F (40 °C))
Oxidizing properties	Not oxidizing.
Particle size	Not applicable, product is a liquid.

## 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	Avoid heat, sparks, open flames and other ignition sources. 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.

## 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	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Swallowing or vomiting of the liquid may result in aspiration into the lungs.

#### Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
White mineral oil (petroleum) (	CAS 8042-47-5)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
Aerosol			
LC50	Rat	> 5 mg/l	
Oral			
LD50	Rat	> 5000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause tempora	ary irritation.	

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization	1			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
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 Evaluation of Carcinogenicity				
Not listed. NTP Report on Carcinogens Not listed.	5			
	d Substances (29 CFR 1910.1001-1053)			
Not listed.	, , ,			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
Chronic effects	Prolonged inhalation may be harmful.			
Further information	Symptoms may be delayed.			

# 12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
White mineral oil (petroleum	) (CAS 8042-47-	-5)		-
Aquatic				
Acute				
Crustacea	LL50	Invertebrates (Invertebrates)	100 mg/l	
Fish	LL50	Fish	10 mg/l	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.			
Bioaccumulative potential	No data available.			
Mobility in soil	No data available.			
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.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
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 of 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 not known to be 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 No chemical SARA 313 (TRI reporting) 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** White mineral oil (petroleum) (CAS 8042-47-5) US. New Jersey Worker and Community Right-to-Know Act White mineral oil (petroleum) (CAS 8042-47-5) US. Pennsylvania Worker and Community Right-to-Know Law White mineral oil (petroleum) (CAS 8042-47-5) **US. Rhode Island RTK** Not regulated. **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)) White mineral oil (petroleum) (CAS 8042-47-5) International Inventories On inventory (yes/no)\* Country(s) or region Inventory name United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes \*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 24-February-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.