

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Low Viscosity Test Fluid</b>
<b>Other means of identification</b>	
<b>Product code</b>	29089-00, 29089-01
<b>Recommended use</b>	Reference material for laboratory use only.
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	AMETEK - Spectro Scientific
<b>Address</b>	1 Executive Drive Chelmsford , MA 01824 United States
<b>E-mail</b>	service.spectrosci@ametek.com
<b>Website</b>	www.spectrosci.com
<b>Telephone</b>	+1 (978) 486-0123
<b>Emergency telephone</b>	CHEMTREC US & Canada 800-424-9300 International +1 703-741-5970 CHEMTREC A/C 619107

## 2. Hazard(s) identification

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

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Mixture	≤ 90

### Constituents\*

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light naphthenic		64742-53-6	
Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO)		64742-54-7	
Distillates (petroleum), hydrotreated light paraffinic		64742-55-8	

## Constituents\*

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), solvent-dewaxed light		64742-56-9	
Distillates (petroleum), solvent-dewaxed heavy paraffinic		64742-65-0	
1-Decene, homopolymer, hydrogenated		68037-01-4	
Lubricating Oils (petroleum), C15-30, hydrotreated neutral oil-based		72623-86-0	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based		72623-87-1	
White mineral oil (petroleum)		8042-47-5	
Distillates, heavy, C18-50 branched, cyclic and linear		848301-69-9	
Distillates, heavy, C18-50 branched, cyclic and linear		68649-12-7	
1-Dodecene, polymer with 1-decene, hydrogenated		151006-60-9	
1-Dodecene polymer with 1-decene and 1-octene hydrogenated		163149-28-8	

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Contains less than 3 % DMSO extract as measured by IP 346.

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Will burn if involved in a fire.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Oil mist, mineral	PEL	5 mg/m <sup>3</sup>	Mist.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Oil mist, mineral	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Oil mist, mineral	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** 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.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear gloves for the protection against chemical hazards according to EN 374. The glove material has to be impermeable and recommended for mineral oils, naphtha, and aliphatic hydrocarbons. Suitable gloves can be recommended by the glove supplier.

##### 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** Pink. Reddish-pink.

**Odor** Petroleum.

**Odor threshold** Not available.

**pH** Not applicable.

**Melting point/freezing point** Not determined.

**Initial boiling point and boiling range** Not determined.

**Flash point** 446.0 °F (230.0 °C) Cleveland Open Cup

**Evaporation rate** Not determined.

**Flammability (solid, gas)** Will burn if involved in a fire.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not determined.

**Flammability limit - upper (%)** Not determined.

**Vapor pressure** Not determined.

**Vapor density** > 1 ( Air=1) estimated

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Negligible.

**Auto-ignition temperature** Not determined.

**Decomposition temperature** Not determined.

**Viscosity** Not determined.

### Other information

**Explosive properties** Not explosive.

**Oxidizing properties** Not oxidizing.

**Particle size** Not applicable, product is a liquid.

**VOC** Not determined.

## 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** Contact with incompatible materials. Avoid exposure to high temperatures or direct sunlight.

**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. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**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** 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

Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO) (CAS 64742-54-7) 3 Not classifiable as to carcinogenicity to humans.

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	3 Not classifiable as to carcinogenicity to humans.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)	3 Not classifiable as to carcinogenicity to humans.
Lubricating Oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	3 Not classifiable as to carcinogenicity to humans.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)	3 Not classifiable as to carcinogenicity to humans.

#### **NTP Report on Carcinogens**

Not listed.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## **12. Ecological information**

<b>Ecotoxicity</b>	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.
<b>Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>Bioaccumulative potential</b>	

#### **Partition coefficient n-octanol / water (log Kow)**

Low Viscosity Test Fluid > 6

<b>Mobility in soil</b>	The product is insoluble in water.
<b>Other adverse effects</b>	Oil spills are generally hazardous to the environment.

## **13. Disposal considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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 Annex II of MARPOL 73/78 and the IBC Code** Not established.

## **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 chemical** No**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 (SDWA)** Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO) (CAS 64742-54-7)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)

Distillates (petroleum), solvent-dewaxed light (CAS 64742-56-9)

Distillates, heavy, C18-50 branched, cyclic and linear (CAS 848301-69-9)

White mineral oil (petroleum) (CAS 8042-47-5)

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

Distillates, heavy, C18-50 branched, cyclic and linear (CAS 848301-69-9)

White mineral oil (petroleum) (CAS 8042-47-5)

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

Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO) (CAS 64742-54-7)

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Distillates (petroleum), solvent-dewaxed light (CAS 64742-56-9)

Distillates, heavy, C18-50 branched, cyclic and linear (CAS 848301-69-9)

White mineral oil (petroleum) (CAS 8042-47-5)

Zinc bis[O,O-bis(2-ethylhexyl)]bis(dithiophosphate) (CAS 4259-15-8)

**US. Rhode Island RTK**

Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO) (CAS 64742-54-7)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)

Distillates (petroleum), solvent-dewaxed light (CAS 64742-56-9)

Distillates, heavy, C18-50 branched, cyclic and linear (CAS 848301-69-9)

**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](http://www.P65Warnings.ca.gov).

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

Distillates (petroleum), hydrotreated heavy paraffinic (< 3% DMSO) (CAS 64742-54-7)

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS 64742-65-0)

Distillates (petroleum), solvent-dewaxed light (CAS 64742-56-9)

Distillates, heavy, C18-50 branched, cyclic and linear (CAS 848301-69-9)  
Lubricating Oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)  
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS 72623-87-1)  
White mineral oil (petroleum) (CAS 8042-47-5)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*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 22-February-2021

Revision date 18-March-2021

Version # 02

NFPA ratings



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.