



american gas & chemical co. ltd.

220 PEGASUS AVE
NORTHVALE, NEW JERSEY 07647
201-767-7300, FAX 201-767-1741

Safety Data Sheet

Issue Date: 31-Jan-2002

Revision Date: 21-Apr-2022

Version 1

1. IDENTIFICATION

Product Identifier

Product Name TSI 321 Synthetic Lubricant

Other means of identification

SDS # AGC-033

Product Code 321

Other Information Package type: Poly bottles, 5 gallon pails, 55 gallon drums.

Recommended use of the chemical and restrictions on use

Recommended Use Synthetic Lubricant.

Details of the supplier of the safety data sheet

Manufacturer Address AMERICAN GAS & CHEMICAL COMPANY, LTD
220 Pegasus Avenue
Northvale NJ 07647

Emergency Telephone Number

Company Phone Number Phone: 201-767-7300 Fax: 201-767-1741

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear, light brown liquid

Physical State Liquid

Odor Slight ester odor

Classification

Hazards Classification Not Classified

Hazard Symbol No Symbol

Signal Word No Signal Word

Hazard Statements Not applicable

Precautionary Statements Not applicable

**Other hazards which do not result
in GHS classification** None Identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Mineral Oil	64742-52-5	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get medical advice/attention.

Skin Contact Wash with soap and water.

Inhalation Remove to fresh air.

Ingestion Do not induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects

Symptoms See section 11

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

No Data Available

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Non-flammable solution.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protective equipment as required.

Environmental Precautions

Prevent from entering into water courses, sewers, and confined areas.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Contain and collect with an inert absorbent and place into an appropriate container for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin. Do not get in eyes.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

Chemical Name	Type	Exposure Limit Values	Source
Mineral Oil – Inhalable fraction	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Mineral Oil - Mist	REL	5 mg/m3	US. NIOSH Pocket Guide to Chemical Hazards (1010)
Mineral Oil - Mist	STEL	10 mg/m3	US. NIOSH Pocket Guide to Chemical Hazards (1010)
Mineral Oil - Mist	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000 (02 2006))

Appropriate engineering controls**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Safety glasses.

Skin and Body Protection

Wear suitable gloves.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Slight ester odor
Appearance	Clear, light brown liquid	Odor Threshold	Not determined
Color	light brown		
Property	Values	Remarks • Method	
pH	Not applicable		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	>282°C / >540°F		
Flash Point	213 °C / 415 °F		
Evaporation Rate	<1	Cleveland Open Cup ASTM D 92-78 (Water = 1)	
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	Not available		
Lower Flammability Limit	Not available		
Vapor Pressure	1 mm Hg	@ 20°C (68°F)	
Vapor Density	>1	(Air=1)	
Specific Gravity	0.91-0.93		
Water Solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Keep out of reach of children.
Incompatible Materials	None known based on information supplied.
Hazardous Decomposition Products	Thermal decomposition or combustion may generate sulfur oxides, sulfides including hydrogen sulfide and other products of incomplete combustion. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and any other products of incomplete combustion. Thermal decomposition may generate barium oxides and other barium compounds.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	May causes mild skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.

Information on physical, chemical and toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Mineral Oil 64742-52-5	> 2000 mg/kg (Rat)	>2000mg/kg (Rabbit)	Not Classified

Symptoms

Inhalation	Not classified for acute toxicity based on available data.
-------------------	------------------------------------------------------------

Skin	May cause skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
Eye	Not classified as a primary eye irritant.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish No Data Available

Aquatic Invertebrates EC 50 Water flea (*Daphnia magna*), 2d:>10,000 mg/l
EC 50 Water flea (*Daphnia magna*), 21d:>10 mg/l
NOEC Water flea (*Daphnia magna*), 21d: 10 mg/l

Microorganisms EC 50 Sludge, 0.1d: >10,000 mg/l

Biodegradation OECD TG 301F, 31%, 28d, Not readily degradable

Mobility No data available

Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations**SARA 313**

Not determined

US State Regulations**US California Proposition 65****U.S. State Right-to-Know Regulations**

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	0	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	B

Issue Date: 31-Jan-2002
Revision Date: 21-Apr-2022
Revision Note: 3-Year Update

Disclaimer

Information in the SDS is provided in good faith, but we assume no liability for its use or misuse. It is furnished without any warranty of merchantability or any other warranty, express or implied. We shall not be liable for any claims, losses or damages of any vendee or third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however they arise. Users must make their own investigations to determine suitability.

End of Safety Data Sheet