



**american gas & chemical co. ltd.**  
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201-767-7300 FAX 201-767-1741

# Safety Data Sheet

Issue Date: 02-Feb-2004

Revision Date: 13-Sep-2023

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Hi Performance Synthetic Lubricant (Aerosol)

### Other means of identification

**SDS #** AGC-009

**Product Code** TSI-301

**UN/ID No** UN1950

**Other Information** Package type: Aerosol

### 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** Citrus

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 3
Acute Toxicity - Inhalation	Category 4
Gases Under Pressure	Compressed Gas

### Signal Word Warning

#### Hazard Statements

Harmful if swallowed or inhaled  
May cause an allergic skin reaction  
May cause eye irritation  
May cause drowsiness or dizziness  
Contains gas under pressure; may explode if heated



#### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash skin thoroughly after handling  
Use only outdoors or in a well-ventilated area  
Do not eat, drink or smoke when using this product  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves

#### Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor/physician.

**Precautionary Statements - Storage**

Store locked up. Store in a well-ventilated place

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life with long lasting effects

**Hazards Not Otherwise Classified (HNOC)**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
1,2-trans-Dichloroethylene	156-60-5	<45
Proprietary Fluorinated Solvent	Trade Secret	<30
1,1,1,2-Tetrafluoroethane	811-97-2	<25

**4. FIRST-AID MEASURES****First Aid Measures****General Advice**

Provide this SDS to medical personnel for treatment.

**Eye Contact**

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call physician.

**Skin Contact**

In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation**

If overcome by vapor, remove from exposure. If you feel unwell, get medical attention.

**Ingestion**

If ingested, do not induce vomiting. Call a physician immediately.

**Most important symptoms and effects****Symptoms**

High vapor concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Prolonged or repeated skin contact tends to remove skin oils possibly leading to irritation and dermatitis. Product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury or death. Contact may cause eye irritation.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Foam, dry chemical, CO<sub>2</sub>, water spray or fog.**Unsuitable Extinguishing Media** Not determined.**Specific Hazards Arising from the Chemical**

Product is not flammable or combustible.

Exposure to extreme heat can give rise to thermal decomposition.

Pressurized container: May burst if heated.

**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. Cool exposed containers with water spray. Avoid breathing vapor or fumes.

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

Remove all ignition sources. Recover free liquid. Ventilate confined spaces.

**For Emergency Responders**

Follow applicable OSHA regulations (29 CFR 1910.120).

**Environmental Precautions**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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

<b>Methods for Containment</b>	Absorbent such as sand, sawdust, etc. to spill area.
<b>Methods for Clean-Up</b>	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing. Do not puncture or incinerate cans.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers closed when not in use. Do not handle or store near heat, sparks, flame or strong oxidants. Do not store above the following temperature: 35°C (95°F).
<b>Incompatible Materials</b>	Strong oxidizers. Alkalis or alkaline earth metals powdered Al, Zn, Be, etc.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,2-trans-Dichloroethylene 156-60-5	TWA: 200 ppm	TWA: 790 ppm	-
Proprietary Fluorinated Solvent	TWA: 50 ppm	-	-

**Appropriate engineering controls**

<b>Engineering Controls</b>	VENTILATION: Use with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking or open lights.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Use splash goggles or face shield when contact may occur.
<b>Skin and Body Protection</b>	Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.
<b>Respiratory Protection</b>	Use supplied-air respiratory protection in confined or enclosed spaces.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Slight Odor
<b>Appearance</b>	Clear, light brown liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear, light brown		

Note: the physical data presented below are for bulk formula specification.

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	Not available	
<b>Melting Point/Freezing Point</b>	Not determined	
<b>Boiling Point/Boiling Range</b>	41°C / 106°F	
<b>Flash Point</b>	None	
<b>Evaporation Rate</b>	<1	(Water = 1)
<b>Upper Flammability Limits</b>	None Detected	
<b>Lower Flammability Limit</b>	None Detected	
<b>Vapor Pressure</b>	383 mm Hg	@ 68°F (20°C)
<b>Vapor Density</b>	4.5	Air=1
<b>Specific Gravity</b>	1.24-1.26	
<b>Water Solubility</b>	Negligible	
<b>Solubility in other solvents</b>	Not Determined	
<b>Partition Coefficient</b>	Not Determined	

<b>Auto-ignition Temperature</b>	Not Determined
<b>Decomposition Temperature</b>	Not Determined
<b>Kinematic Viscosity</b>	Not Determined
<b>Dynamic Viscosity</b>	Not Determined
<b>Explosive Properties</b>	Not Determined
<b>Oxidizing Properties</b>	Not Determined

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Keep out of reach of children. Heat.
<b>Incompatible Materials</b>	Strong bases & strong oxidizing agents. Alkalis or alkaline earth metals powdered Al, Zn, Be, etc.
<b>Hazardous Decomposition Products</b>	Decomposition of this product at temperature above 300° C can form Hydrogen Chloride, Perfluoroisobutylene, Hydrogen Fluoride (HF), but HF will only accumulate with continuous exposure to excess heat in a sealed vessel.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Variability Among Individuals: Health studies have shown that many halogenated hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized
<b>Eye Contact</b>	May cause temporary irritation on eye contact. Symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Inhalation</b>	Vapor may irritate respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed. Symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause target effect after ingestion.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,2-trans-Dichloroethylene 156-60-5	= 1235 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Proprietary Fluorinated Solvent	>2,000mg/kg	>2,000mg/kg	>24.8mg/L (3,000 ppm)
1,1,1,2-Tetrafluoroethane 811-97-2	-	-	= 1500 g/m <sup>3</sup> ( Rat ) 4 h

### Target Organ Effects:

<b>Single exposure may cause:</b>	Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.
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### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	May cause an allergic skin reaction.
<b>Carcinogenicity</b>	Not considered a carcinogen.

<b>Numerical measures of toxicity</b>	Not determined
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,2-trans-Dichloroethylene 156-60-5		135: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 1142 mg/L 5 min EC50 = 1546 mg/L 30 min	
1,1,1,2-Tetrafluoroethane 811-97-2		96 hour LC50-Rainbow Trout: 450 mg/L		48 hour EC50- Daphnia magna: 980 mg/L
Proprietary Fluorinated Solvent	ErC50>213mg/L EbC50>213mg/L	LC50 (96 hr) (Carp) >76mg/L	EC50>94mg/L – 48hr	

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
1,2-trans-Dichloroethylene 156-60-5	1.48

### Other Adverse Effects

Not determined

## 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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
1,2-trans-Dichloroethylene 156-60-5	U079	Included in waste streams: F024, F025, F039, K073		U079

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
1,2-trans-Dichloroethylene 156-60-5	Category I - Volatiles		Toxic waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

## 14. TRANSPORT INFORMATION

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

### DOT

UN/ID No UN1950  
Proper Shipping Name Aerosols  
Hazard Class 2.2

### IATA

UN/ID No UN1950  
Proper Shipping Name Aerosols, Non-Flammable  
Hazard Class 2.2

### IMDG

UN/ID No UN1950  
Proper Shipping Name Aerosols  
Hazard Class 2.2  
Marine Pollutant This material may meet the definition of a marine pollutant

## 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

#### CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
1,2-trans-Dichloroethylene 156-60-5	1000 lb 1 lb		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

#### SARA 313

1,2-trans-Dichloroethylene

#### SARA 311/312

Acute: Yes Chronic: No Reactive: Yes Sudden Release: No

#### SARA 302

Not regulated

#### SARA 304

Not regulated

#### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
1,2-trans-Dichloroethylene 156-60-5			X	

### US State Regulations

#### California Proposition 65

This product contains no Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,2-trans-Dichloroethylene 156-60-5		X	X

## 16. OTHER INFORMATION

#### NFPA

##### Health Hazards

2

##### Flammability

0

##### Instability

1

##### Special Hazards

Not determined

#### HMIS

##### Health Hazards

2

##### Flammability

0

##### Physical Hazards

1

##### Personal Protection

B- Safety Glasses,  
Gloves

Issue Date:

02-Feb-2004

Revision Date:

13-Sep-2023

Revision Note:

Formula Revision

#### 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**