



american gas & chemical co. ltd.

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

Safety Data Sheet

Issue Date: 9-June-2022

Revision Date: 06-Nov-2023

Version 1

1. IDENTIFICATION

Product Identified

Product Name Oxygen Fitting Cleaner AG-OFC

Other means of identification

SDS # AGC-285

Product Code AG-OFC

UN/ID No UN1950

Other Information Package type: Aerosol

Recommended use of the chemical and restrictions on use

Recommended Use Oxygen Fitting Cleaner

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 liquid

Physical State Liquid

Odor Slight Alcohol Odor

Classification

Serious Eye Damage/Irritation	Category 2B
Specific Target Organ Toxicity (central nervous system)	Category 3
Gases Under Pressure	Compressed Gas

Signal Word

Warning

Hazard Statements

Harmful if swallowed or inhaled
May cause an allergic skin reaction
Causes 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 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal facility.

Precautionary Statements - Storage

Store locked up
Protect from sunlight. Store in a well-ventilated place

Other Hazards

Toxic to aquatic life with long lasting effects

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	<18
Isopropyl Alcohol	67-63-0	<5

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

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	Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. Call a physician immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Do not induce vomiting. Call a physician immediately. Potential for aspiration if swallowed.

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. Contact may cause eye irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Pressurized container: May burst if heated.

Exposure to extreme heat can give rise to thermal decomposition.

Hazardous Decomposition or By-Products Carbon Monoxide, Carbon Dioxide

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	Remove all sources of ignition. Use personal protective equipment as required. Ventilate confined spaces.
Environmental Precautions	Try to prevent the material from entering drains or water courses.

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 spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Store work clothes separately from other clothing, food and tobacco products. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, and flame. Store away from incompatible materials. 2 year shelf life. Do not store above the following temperature: 35°C (95°F).

Incompatible Materials

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	-	-
Proprietary Fluorinated Solvent	TWA: 50 ppm	-	-
Isopropyl Alcohol	TWA: 400 ppm	TWA: 400 ppm	

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Use splash goggles or face shield when contact may occur.

Skin and Body Protection

For prolonged or repeated skin contact use suitable protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Use supplied-air respiratory protection in confined or enclosed spaces.

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 alcohol odor
Appearance	Clear liquid	Odor Threshold	Not determined
Color	Clear	Remarks • Method	
Property	Values		
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	44.6°C / 112°F		
Flash Point	None		
Evaporation Rate	<1	(Water = 1)	
Flammability (Solid, Gas)	Non-flammable aerosol		
Upper Flammability Limits	None		
Lower Flammability Limit	None		
Vapor Pressure	517 mm Hg	@ 20°C (68°F)	
Vapor Density	4.0	(Air=1)	
Specific Gravity	1.40	@ 20°C (68°F)	
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	This material may be reactive with certain agents under certain conditions – see below.
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. Avoid heat.
Incompatible Materials	Strong bases. Strong oxidizers. Alkalis or alkaline earth metals powdered Al, Zn, Be, etc.
Hazardous Decomposition Products	Decomposition of this product at temperature above 300° C can form 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

Product Information

Eye Contact	Avoid contact with eyes. May cause temporary irritation on eye contact.
Skin Contact	May be harmful in contact with skin. May cause an allergic skin reaction. Causes mild skin irritation.
Inhalation	Harmful if inhaled. Vapor may irritate respiratory tract.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,2-trans-Dichloroethylene 156-60-5	= 7,902 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 95.6 mg/l (Rat) 4 h
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 ³ (Rat) 4 h
Isopropyl Alcohol 67-63-0	5045 mg/kg (Rat)	-	= 72,600 mg/m ³ (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms	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

Carcinogenicity	Not classifiable as a human carcinogen.
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Legend

*IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"*

Numerical measures of toxicity	Not determined
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

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.
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Bioaccumulation	Not determined.
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Mobility

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

Other Adverse Effects	Not determined
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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.

US EPA Waste Number

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 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.	

California Hazardous Waste Status

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/NDSL - 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 (<35)			X	

US State Regulations

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	Flammability	Instability	Special Hazards
	2	0	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	B

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Revision Note: Formula Revision

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End of Safety Data Sheet