

CS-401 SAFETY DATA SHEET

Version 1.0 Effective Date: 06/01/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CS-401 (colors)-(percent Propylene Glycol)

Description: Inhibited Heat Transfer Fluid Suggested Use: Industrial Water Treatment

Restrictions on Use: Do not mix with other industrial chemicals.

Supplier: Advanced Chemical Technology, Inc.

8728 Utica Avenue

Rancho Cucamonga, CA 91730 Telephone: 1-909-980-4556 or 1-800-527-9607

Fax: 1-909-980-9366

Emergency Phone: 1-800-255-3924 (CHEMTEL)

2. HAZARDS IDENTIFICATION

Classification

GHS Classification: Serious Eye Irritation (Category 2A)

GHS Label Elements

Pictogram:

Signal Word: Warning

Hazard Statements: H316: Causes mild skin irritation

H319: Causes serious eye irritation

Precautionary Statements: P264: Wash hands thoroughly after handling.

P 273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention/advice. P332+P313: If skin irritation occurs: Get medical advice/attention.

P501 - Dispose of contents/container to comply with local, state and federal

regulations.

HMIS Classification: Health Hazard: 0

Flammability: 1 Physical Hazards: 0

NFPA Rating: Health Hazard: 0

Fire: 1 Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled.



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Skin: May cause skin irritation. Eyes: Causes eye irritation.

Ingestion: May cause gastrointestinal irritation. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u> <u>CAS Number</u> <u>Concentration</u>

Propylene Glycol 57-55-6 1-99%

Synonyms: Not Established

4. FIRST AID MEASURES

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Flush skin with plenty of

water for at least fifteen minutes.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Remove contact lenses if able to do so.

If Ingested: Do NOT induce vomiting unless instructed to do so by a physician. Never give

anything by mouth to an unconscious person. Rinse mouth with water. Consult

a physician.

5. FIREFIGHTING MEASURES

Flammability Overview: Considered a non-flammable water solution

Flash Point: > 266 °F

Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor

extinguishing media to surrounding fire.

Special Protective Equipment

for Firefighters:

Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

Hazardous Combustion

Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acetic

acid, propionaldehyde, lactic acid, pyruvic acid.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains

and waterways. Discharge into the environment must be avoided.

Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep

in suitable, closed containers for disposal. If assistance is needed call

CHEMTEL or emergency services.



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7. HANDLING AND STORAGE

Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Propylene Glycol	57-55-6	Not Established	ACGIH Threshold Value (TWA) (mg/m ³)
		Not Established	OSHA PEL (TWA) (mg/m ³)

Personal Protective Equipment

Hand Protection:

Eye Protection: Wear tightly fitting safety goggles or safety glasses. Use equipment for eye

protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur. Handle with chemical-resistant gloves. Gloves must be inspected prior to use.

Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Protect skin by wearing pants, close toe shoes and long sleeves. The type of

protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers

should be located in the work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a

NIOSH-approved full-face respirator with appropriate cartridges. For oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator.

Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR

1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety

showers and eye wash stations. Handle material in accordance with good

industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: P-Pink, B-Blue, G-Green, Y-Yellow, N-Clear

Odor: Bland

 $\begin{array}{lll} \mbox{Odor Threshold:} & \mbox{Not Applicable} \\ \mbox{pH:} & 8.0 - 9.0 \\ \mbox{Melting/Freezing Point:} & -60-32\ ^{\circ}\mbox{F} \\ \mbox{Boiling Point:} & 212-370\ ^{\circ}\mbox{F} \\ \mbox{Flash Point:} & > 266\ \mbox{F} \\ \end{array}$

Evaporation Rate: Not Established Flammability (solid, gas): Not Flammable



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Flammability/Explosion Limits:

Vapor Pressure @ 20°C:

Vapor Density:

Specific Gravity:

Density:

Solubility in Water:

Not Flammable

Not Established

Not Established

Not Established

Complete

Partition Coefficient:
Autoignition Temperature:
Decomposition Temperature:
Viscosity:

Not Established
Not Established
Not Established
Not Established

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions. Do not store under 50 °F.

Conditions and Materials to

Avoid:

Oxidizing agents, reducing agents, strong acids, silver nitrite, chloroformates, and moisture. Extreme heat. Do not mix with other industrial chemicals.

Hazardous Decomposition

Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acetic

acid, propionaldehyde, lactic acid, pyruvic acid.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Propylene Glycol	57-55-6	Oral LD50 (Mouse)	Not Established
		Skin	Not Established
		Inhalation LC50-1H (Rat)	Not Established

Potential Health Effects

Inhalation: Low hazard for usual industrial handling. May cause respiratory tract irritation.

Skin: May cause skin irritation. Eyes: May cause eye irritation.

Ingestion: Can be harmful if swallowed. Do not ingest.

Signs and Symptoms of

Exposure:

Not Established

Chronic Effects of Long-term

Exposure:

Persons with impaired kidney function may be more susceptible to the effects of

this substance. Treat symptomatically and supportively.

Carcinogenicity: No component of this product at levels greater than 0.1% is identified as

carcinogenic by IARC, ACGIH, or OSHA.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component CAS Number	Organism	Ecotoxicity	
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Propylene Glycol 57-55-6 Not Established Not Established

Ecological Effects

Persistence and Degradability: Not Established

Bioaccumulation Potential: Not expected to bio-accumulate

Mobility in Soil: Not Established

Other Adverse Effects: Not Established

13. DISPOSAL CONSIDERATIONS

Disposal: Surplus and non-recyclable material should be treated as hazardous waste and

be disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by

region. Do not release into sewers or waterways.

Non-Regulated Water Treatment Compound

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name:

UN Number: Hazard Class: Packing Group:

Reportable Quantity (RQ):

Marine Pollutant: Not Established

Note:

15. REGULATORY INFORMATION

US Federal

SARA 302 Components: This product does not contain a Section 302 substance subject to Emergency

Planning Notification/Threshold Planning Quantities.

SARA 311/312 Hazards: Acute Health Hazard

SARA 313 Components: This product does not contain a Section 313 listed chemical subject to release

reporting requirements: sodium nitrite- 10,000 lbs.

TSCA Inventory: All chemical components are listed on TSCA Inventory.

European Union

EC Inventory: Not Established

State Regulations



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CA Prop 65:

Contains a detectable residual of propylene oxide, which is known to the state of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

SDS Version: **Revision Date:** Disclaimer:

1.0

The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with the regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Advanced Chemical Technology, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

For product information call Advanced Chemical Technology, Inc., 1-909-980-4556.