



**american gas & chemical co. ltd.**  
220 PEGASUS AVE  
NORTHVALE, NEW JERSEY 07647  
201-767-7300 FAX 201-767-1741

# Safety Data Sheet

Issue Date: 01-Mar-2004

Revision Date: 21-Apr-2022

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Fluorescent Penetrant Type I Method B,C,D

### Other means of identification

**SDS #** AGC-023-4

**Product Code** AG-4B-FS

**Other Information** Package types: Aerosols

### Recommended use of the chemical and restrictions on use

**Recommended Use** Fluorescent Penetrant for Leak Detection.

### 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** Yellow-green liquid

**Physical State** Liquid

**Odor** Mild

### Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Gases Under Pressure	Compressed Gas

### Signal Word

**Danger**

### Hazard Statements

Harmful if inhaled  
May be harmful if swallowed  
Contains gas under pressure; may explode if heated



### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

### Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician

### Precautionary Statements - Storage

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

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other Hazards

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Di-isodecyl phthalate (DIDP)	68515-49-1	50
Isodecyl diphenyl phosphate	29761-21-5	25
Triphenyl phosphate	115-86-6	<1.5
1,1,1,2-Tetrafluoroethane	811-97-2	15
Petroleum distillates, hydrotreated middle	64742-46-7	5

### 4. FIRST-AID MEASURES

#### First Aid Measures

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call physician.
<b>Skin Contact</b>	In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse.
<b>Inhalation</b>	If overcome by vapor, remove from exposure and call physician immediately. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available.
<b>Ingestion</b>	If ingested, do not induce vomiting. Call a physician immediately.

#### Most important symptoms and effects

<b>Symptoms</b>	Due to its low volatility, exposure to this material under ambient conditions is not expected to produce adverse human health effects following normal workplace exposure. Can cause slight skin irritation. May cause eye irritation. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of small quantities is usually non-fatal unless aspiration occurs. Aspiration may lead to chemical pneumonitis.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Regular foam, water fog, CO<sub>2</sub>, dry chemical.

**Unsuitable Extinguishing Media** Not determined.

#### Specific Hazards Arising from the Chemical

Product is combustible & may ignite if exposed to high temperature or direct flame. Containers may burst due to pressure build-up of contents from exposure to the heat of fire.

**Hazardous Combustion Products** Carbon oxides.

#### 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

<b>Personal Precautions</b>	Remove all ignition sources. Recover free liquid. Ventilate confined spaces.
<b>For Emergency Responders</b>	Follow applicable OSHA regulations (29 CFR 1910.120).
<b>Environmental Precautions</b>	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>	Absorb with appropriate inert material such as sand, clay, etc.
<b>Methods for Clean-Up</b>	Sweep up absorbed material and shovel into suitable containers for disposal. Large spills may be picked up by using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers. 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

#### Advice on Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. Store locked up. AEROSOL: Store in a cool dry place at temperatures Below 120°F. Do not puncture or incinerate aerosol cans.

#### Incompatible Materials

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TWA	OSHA PEL	NIOSH TWA
Triphenyl phosphate 115-86-6	3mg/m <sup>3</sup>	3mg/m <sup>3</sup>	3mg/m <sup>3</sup>

### Exposure Guidelines

The following information is given as general guidance

### Appropriate engineering controls

#### Engineering Controls

None under normal use conditions.

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

#### Eye/Face Protection

Safety glasses.

#### Skin and Body Protection

Impervious rubber 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	Mild
Appearance	Yellow-green liquid	Odor Threshold	Not determined
Color	Yellow-green		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	None		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	226.66°C /480°F		
Flash Point	122.22°C /252°F	(ASTM D-93 / PMCC)	
Evaporation Rate	< 0.01	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	0.01 mm Hg	@68°F (20°C)	
Vapor Density	>1	(Air=1)	
Specific Gravity	0.97-0.99		
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		
Additional Information	Percent Volatile: 95		

## 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

Strong oxidizing agents.

### Hazardous Decomposition Products

Burning can produce CO and/or CO<sub>2</sub>.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**      May cause temporary irritation on eye contact.

**Skin Contact**      May cause temporary irritation on skin contact.

**Inhalation**      Harmful if inhaled.

**Ingestion**      May cause discomfort if swallowed.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Di-isodecyl phthalate (DIDP) 68515-49-1	> 60000 mg/kg ( Rat )	= 16000 mg/kg ( Rabbit )	-
Isodecyl diphenyl phosphate 29761-21-5	> 15800 mg/kg ( Rat )	> 7900 mg/kg ( Rabbit )	> 6.3 mg/L ( Rat ) 4 h
Triphenyl phosphate 115-86-6	3.8 g/kg (Rat)	>7.9 g/kg (Rabbit)	
Petroleum distillates, hydrotreated middle 64742-46-7	= 7400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 4.6 mg/L ( Rat ) 4 h

### Information on physical, chemical and toxicological effects

**Symptoms**      Please see section 4 of this SDS for symptoms.

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

**Carcinogenicity**      This product contains petroleum distillates which are considered to be highly refined and not considered to be carcinogenic under IARC.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Di-isodecyl phthalate (DIDP) 68515-49-1	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50	0.66: 96 h Pimephales promelas mg/L LC50 static 1: 96 h Pimephales promelas mg/L LC50 flow-through 1: 96 h Oncorhynchus mykiss mg/L LC50 static 0.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.55: 96 h Lepomis macrochirus mg/L		0.18: 48 h Daphnia magna mg/L EC50
Triphenyl phosphate 115-86-6		6700: 96 h Lepomis macrochirus mg/L LC50 static		0.03: 48 h Daphnia magna mg/L EC50 0.031: 48 h Daphnia magna mg/L EC50 Flow through 0.48: 48 h Daphnia magna mg/L EC50 Static
Petroleum distillates, hydrotreated middle 64742-46-7		35: 96 h Pimephales promelas mg/L LC50 flow- through 10000: 96 h Pimephales promelas mg/L LC50 static		

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Isodecyl diphenyl phosphate 29761-21-5	5.44
Triphenyl phosphate 115-86-6	4.59

**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.

## 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

## 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

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

### CERCLA

Triphenyl phosphate 115-86-6	Listed
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### SARA 313

Not determined

### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Di-isodecyl phthalate (DIDP) 68515-49-1 (60)		X		

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Di-isodecyl phthalate (DIDP) - 68515-49-1	Developmental

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Di-isodecyl phthalate (DIDP) 68515-49-1			X	
Triphenyl phosphate 115-86-6	X	X	X	X

## 16. OTHER INFORMATION

#### NFPA

**Health Hazards**

1

**Flammability**

0

**Instability**

1

**Special Hazards**

Not determined

#### HMIS

**Health Hazards**

1

**Flammability**

1

**Physical Hazards**

1

**Personal Protection**

B- Safety Glasses,  
Gloves

**Issue Date:**

01-Mar-2004

**Revision Date:**

21-Apr-2022

**Revision Note:**

3-Year Update

### Disclaimer

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**End of Safety Data Sheet**