



SAFETY DATA SHEET

Preparation Date: 07/20/2015 Revision Date: 10/09/2015 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: H1784

Product Name: 4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98+%

Other means of identification

Synonyms: No information available

CAS #: 1107-00-2
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory chemicals. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1Sub-category C
Serious eye damage/eye irritation	Category 1

Label elements

Product code: H1784

Danger

Hazard statements

Causes severe skin burns and eye damage



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98% 1107-00-2	1107-00-2	100	*
1107-00-2			

4. FIRST AID MEASURES

First aid measures General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Product code: H1784 Product name: 4,4'(Hexafluoroisopropylidene) diphthalic

4. FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician

immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Severe eye irritation. Causes skin burns. Causes serious eye irritation. Causes eye burns.

Causes eye damage. Causes digestive (gastrointestinal) tract irritation. May cause

gastrointestinal (digestive) tract burns.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Product code: H1784

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray. Foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: May be combustible at high temperatures

Highly toxic hydrogen fluoride gas is produced during

combustion

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal **Personal Precautions:**

> protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Avoid breathing dust. Avoid dust formation. Do not touch damaged containers or spilled

material unless wearing appropriate protective clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Use appropriate tools to put the spilled solid in a suitable waste disposal container. Methods for cleaning up

Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Do not ingest. Do not smoke. Keep away from heat and sources of ignition. Protect from moisture. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Moisture sensitive. Protect from moisture. Store under inert gas. Packed under Argon. Keep container tightly closed in a dry and well-ventilated place. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
4,4'-(Hexafluoroisopropylidene)	None	None	None	None
diphthalic Anhydride, 98%				
1107-00-2				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98%	None	None	None	None
1107-00-2				

Australia and Mexico

Components	Australia	Mexico
4,4'-(Hexafluoroisopropylidene)	None	None
diphthalic Anhydride, 98%		
1107-00-2		

Appropriate engineering controls

Engineering measures to reduce exposure: Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below

recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Product code: H1784

Eye protection: Goggles or Face-shield

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter. Be sure to use an approved/certified respirator or

equivalent..

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Solid. Crystalline powder. White. Beige.

Odor: Taste Molecular/Formula weight:

No information available No information available 444.24

Formula: Flammability: Flash point (°C): C19H6F6O6 No information available No data available

Autoignition Temperature (°C/°F): Flashpoint (°C/°F): Flash Point Tested according to:

No information available. Not available

Lower Explosion Limit (%): Upper Explosion Limit (%):

No information available No information available 3 (10g/L H2O soln, 20°C)

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

243-249°C/469-480°F No information available No information available

Density (g/cm3): Specific gravity: **Bulk density:**

No information available No information available No information available

Vapor pressure @ 20°C (kPa): **Evaporation rate:** Vapor density:

No information available No information available No information available

Partition coefficient VOC content (g/L): Odor threshold (ppm): No information available No information available (n-octanol/water):

5.59

Viscosity: Miscibility: Solubility:

No information available No information available Insoluble in water

Soluble in Acetone

No information available

Soluble in Dimethyl Sulfoxide

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Moisture Sensitive. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to moisture. Exposure to moist air. Incompatible

materials.

Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon oxides. Hydrogen fluoride.

Other Information

Product code: H1784

No information available **Corrosivity:**

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Product name: 4,4'-(Hexafluoroisopropylidene) diphthalic

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Skin. Inhalation. Ingestion.

Acute Toxicity

Component Information

4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98% - 1107-00-2

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas** = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe irritation and burns.

Eye Contact: Causes severe irritation and burns. Causes corneal damage.

Inhalation It is extremely destructive to the tissue of the mucous membrane and upper

respiratory tract. Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath,

headache, nausea..

Ingestion Causes digestive (gastrointestinal) tract irritation. May cause digestive

(gastointestinal) tract irritation.

Product code: H1784 Product name: 4,4'(Hexafluoroisopropylidene) diphthalic

Aspiration hazard No information available

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

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
4,4'-	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
(Hexafluoroisopropylidene) diphthalic Anhydride, 98%						

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98%	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3261

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

[4,4'-(hexafluoroisopropylidene)diphthalic anhydride]

Hazard Class:

Subsidiary Risk:

Packing Group: Ш **ERG No:** 154

No data available **Marine Pollutant** DOT RQ (lbs): No information available

Symbol(s):

TDG (Canada)

UN-No: UN3261

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class:

Subsidiary Risk: No information available

Packing Group: Ш

Description: No information available

ADR

UN-No: UN3261

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class: Packing Group:

Subsidiary Risk: No information available **Classification Code:** No information available No information available Description: **CEFIC Tremcard No:** No information available

IMO / IMDG

UN-No:

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class:

Subsidiary Risk: No information available

Packing Group: Ш

Description: No information available **IMDG Page:** No information available **Marine Pollutant** No information available

EMS: F-A

No information available MFAG: No information available **Maximum Quantity:**

RID

UN-No: UN3261

Product code: H1784 Product name: 4,4'-(Hexafluoroisopropylidene) diphthalic

14. TRANSPORT INFORMATION

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Classification Code: No information available Description: No information available

ICAO

UN-No: UN3261

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Description: No information available

IATA

UN-No: UN3261

Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group: II ERG Code: 8L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98%	Present	Not present	Not present	Present (5)- 6595	Present	Not present	Present 214-170-0

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen			Female Reproductive Toxicity:
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98%	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
4,4'-	None	None	None	None	None
(Hexafluoroisopropyliden					
e) diphthalic Anhydride,					
98%					

Product code: H1784 Product name: 4,4'(Hexafluoroisopropylidene) diphthalic

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
4,4'-(Hexafluoroisopropylidene) diphthalic Anhydride, 98%	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
4,4'-(Hexafluoroisopropylidene)	Not Listed	Present
diphthalic Anhydride, 98%		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
4,4'-(Hexafluoroisopropylidene)	Not listed	Not listed	
diphthalic Anhydride, 98%			

EU Classification

R-phrase(s)

R34 - Causes burns.

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
4,4'-(Hexafluoroisopropylidene)		No information	
diphthalic Anhydride, 98%			

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive.



16. OTHER INFORMATION

Preparation Date:07/20/2015Revision Date:10/09/2015Prepared by:Sonia Owen

Disclaimer:

Product code: H1784

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet