

MATERIAL SAFETY DATA SHEET

CONTACT : LEONID CHEMICALS

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1 Identification of	substance:
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Product details:

• Product name: 1,2-Diiodotetrafluoroethane

Stock number: 344

Manufacturer/Supplier: LEONID CHEMICALS 62/A-2 2nd Stage, Industrial Suburb Yeshwanthpur, Bangalore -22, INDIA Ph- +91-80-23378354.

2 Composition/Data on components:

• Chemical characterization:

Description: (CAS#)

1,2-Diiodotetrafluoroethane (CAS# 354-65-4): 100%

- Identification number(s):
- EINECS Number: 206-567-2

3 Hazards identification

- Hazard description: Xi Irritant
- Information pertaining to particular dangers for man and environment R 36/37/38 Irritating to eyes, respiratory system and skin.
- Classification system
- HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1 Flammability = 0 Reactivity = 1

4 First aid measures

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.



• After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing Seek immediate medical advice.

5 Fire fighting measures

• Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Hydrogen fluoride (HF)

Hydrogen iodide (HI)

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

Information for safe handling:

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

• Information about protection against explosions and fires:

Keep ignition sources away.



- Storage
- Requirements to be met by storerooms and receptacles:

No special requirements.

• Information about storage in one common storage facility:

Store in the dark.

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from exposure to light.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

- Additional information: No data
- Personal protective equipment
- General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

Material of gloves

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

- Eye protection: Safety glasses
- Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

• Form: Liquid

• Odor: Not determined

Value/Range Unit Method

Change in condition

Melting point/Melting range: Not determined
 Boiling point/Boiling range: 112-113 ° C



• Sublimation temperature / start: Not determined

• Flash point: Not determined

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

Lower: Not determinedUpper: Not determined

Vapor pressure: Not determined

• **Density:** Not determined

Solubility in / Miscibility with

Water: Not determined

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
 Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:

Light

Oxidizing agents

- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Hydrogen fluoride

Hydrogen iodide (HI)

11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Subacute to chronic toxicity:

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.



	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecc	ological information:
•	General notes:
	Do not allow material to be released to the environment without proper governmental permits.
13 Dis	posal considerations
•	Product: Recommendation Consult state, local or national regulations to ensure proper disposal.
	consult state, total of flational regulations to ensure proper disposal.
•	Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.
	bisposat must be made according to official regulations.
14 Tra	insport information
	Not a hazardous material for transportation.
•	DOT regulations: Hazard class: None
•	Land transport ADR/RID (cross-border) ADR/RID class: None
•	Maritime transport IMDG: IMDG Class: None
•	Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None
•	Transport/Additional information: Not dangerous according to the above specifications.
15 Reg	gulations
•	Product related hazard informations:
•	Hazard symbols: Xi Irritant



36/37/38 Irritating to eyes, respiratory system and skin.

Risk phrases:

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

• National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only.

Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

Information about limitation of use:

For use only by technically qualified individuals.

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

