

# Safety Data Sheet

UN/ID No       UN2036         Recommended use of the chemical and restrictions on use Recommended Use       Industrial and Specialty Gas Applications.         Details of the supplier of the safety data sheet Supplier Address EFC Gases & Advanced Materials 266 Bergey Road Hatfield, PA 19440 Email: efcsafety@efcgases.com       Status         Emergency telephone number Company Phone Number       215-443-9600 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)         Emergency Telephone       INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)         Appearance       Colorless gas         Physical state       Gas         Odor       Odor         Classification Gases under pressure       Liquefied gas Refrigerated liquefied gas Simple asphyxiants         Signal Word       Yes	Issue Date: 03-Aug-2022	Revision Date: 25-Jun-2024		Version 2
Product Name       Xenn         Dther means of identification:       EF-025         SDS #       Xe.         JN/ID No       UN2036         Recommended use of the chemical and restrictions on use.       Recommended Use         Recommended Use       Industrial and Speciality Gas Applications.         Database of the supplier of the safety data sheet.       Supplier Address         Strep: C Gases & Advanced Materials       Supplier Address         TEC Gases & Advanced Materials       Supplier Address         Tec: Gases & Advanced Materials       Supplier Address         Supplier Yetlephone number       215-443-9600         Company Phone Number       215-443-9600         InflortRC 1-352-323-3500 (International)       1-800-535-5053 (North America)         Temergency Telephone       INFOTRAC 1-352-323-3500 (International)         1-800-535-5053 (North America)       1-800-535-5053 (North America)         Stasse under pressure       Liquefied gas         Sases under pressure       Refrigerated liquefied gas         Sases under pressure       Refrigerated liquefied gas         Signa		1. IDENTIFICATION		
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	May displace oxygen and cause ra	pid suffocation		



<u>Precautionary Statements - Prevention</u> Wear cold insulating gloves/face shield/eye protection

#### **Precautionary Statements - Response**

Get immediate medical advice/attention Thaw frosted parts with lukewarm water. Do not rub affected area

#### **Precautionary Statements - Storage**

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Chemical Family Xe. Inorganic, gas.

Chemical name	CAS No	Weight-%
Xenon	7440-63-3	100

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

<u>Description of first aid measures</u> Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.			
Skin Contact	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.			
Inhalation	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.			
Ingestion	If swallowed, get medical attention.			
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	Frostbite, suffocation.			
Indication of any immediate medical attention and special treatment needed				
Notes to Physician	Treat symptomatically.			

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Carbon Dioxide, regular dry chemical, Large fires: Use regular foam or flood with fine water spray.

#### Unsuitable Extinguishing Media None known.

#### Specific Hazards Arising from the Chemical

Negligible fire hazard. Containers may rupture or explode if exposed to heat.

#### 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. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard
	area and deny entry. Stay upwind and keep out of low areas.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment. See Section 12 for additional Ecological Information.

#### 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 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from sunlight. Store in a well-ventilated pl
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Incompatible Materials Halogens.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational
	exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

**Engineering Controls** Showers. Eyewash stations. Ventilation systems.

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

**Eye/Face Protection** Wear splash resistant safety goggles.

**Skin and Body Protection** For the gas: Wear appropriate chemical resistant gloves. For the liquid: Wear appropriate protective, cold insulating clothing.

# **Respiratory Protection** Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive pressure mode.

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	Gas
Appearance	Colorless gas
Color	Colorless
<u>Property</u>	<u>Values</u>
pH	No data available
Melting point / freezing point	-112°C / -170°F
Initial boiling point and boiling	-108°C / -162°F
range Flash point Evaporation Rate Flammability (Solid, Gas) Flammability Limit in Air	No data available Not determined Non-flammable
Upper flammability or explosive limits Lower flammability or explosive	No data available No data available
limits Vapor Pressure Vapor Density Relative Density Water Solubility	760 mmHg No data available Not determined 0.108%
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	No data available
Decomposition temperature	Not determined
Kinematic viscosity	0.528 cP
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

Odor Odor Threshold Odorless Not determined

#### Remarks • Method

# **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 Will not polymerize.

<u>Conditions to Avoid</u> Protect from physical damage and heat.

#### Incompatible materials Halogens.

<u>Hazardous decomposition products</u> None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure **Product Information Eye Contact** Avoid contact with eyes. **Skin Contact** Avoid contact with skin. Inhalation Do not inhale. Ingestion Do not ingest. **Component Information** Not determined Symptoms related to the physical, chemical and toxicological characteristics Please see section 4 of this SDS for symptoms. Symptoms Delayed and immediate effects as well as chronic effects from short and long-term exposure Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. Numerical measures of toxicity The following values are calculated based on chapter 3.1 of the GHS document Not determined. **12. ECOLOGICAL INFORMATION** Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. **Component Information** Not available Persistence/Degradability Not determined. **Bioaccumulation** There is no data for this product. Mobility Not determined Other adverse effects Not determined

# **13. DISPOSAL CONSIDERATIONS**

<u>Waste Treatment Methods</u> 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**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u> UN/ID No Proper Shipping Name Transport hazard class(es)	UN2036 Xenon, compressed 2.2
<u>IATA</u> UN number or ID number Proper Shipping Name Transport hazard class(es)	UN2036 Xenon, compressed 2.2
<u>IMDG</u> UN number or ID number Proper Shipping Name Transport hazard class(es)	UN2036 Xenon, compressed 2.2

# **15. REGULATORY INFORMATION**

#### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Xenon	Х	ACTIVE	Х	Х	Х	Х	Х	Х	Х

#### 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

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

# <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

This product does not contain any substances regulated under applicable state right-to-know regulations

Regulatory review

# **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health hazards 1 Health hazards -	Flammability 2 Flammability -	Instability 0 Physical hazards -	Special hazards - Personal Protection Not determined
Issue Date: Revision Date:	03-Aug- 25-Jun-			

**Disclaimer** 

**Revision Note:** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet