

Section 1: Chemical Product and Company Identification

Product identifier:

Identification as on the label/Trade name: Xenon, Enriched Xenon (inert gas)

Molecular weight: 131.293

Chemical formula: Xe

Synonyms: None.

Details of the supplier of the Safety Data Sheet:

Neonest AB

Storgatan 70C, Solna

SE-17152

Sweden

Contact details:

+46-76-219-9731

Emergency telephone numbers:

24-hour Emergency Contact:

Swedish Poisons Center phone: 112 – “ask for Poisons Information”. "112 – begär Giftinformation"

Other International Contacts:

CHEMTREC 24-hour: +1-703-741-5500 (US + Worldwide)

NHS: 111 (UK)

Charite: +49 30 450 531 000 (Netherlands)

INTCF: +34 917689800 (Spain)

CapTv: +33 1 40 05 48 48 (France)

Section 2: Hazards Identification

Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories:

Pressurized Gas

Hazard statement:

H280

Label elements:

Hazard pictograms:



Signal Words: Warning.

Hazard Statements:

H280 Contains gas under pressure; may explode if heated.

Precautionary Statements:

None.

Other hazards: None known.**Section 3: Composition/Information on Ingredients****Substance/Mixture:** Substance.**Ingredients:**

Substance name (IUPAC/EC)	CAS-No.	Molecular weight	Concentration % by weight	Classification EC1272/2008
	EC-No.			
Xenon	7440-63-3	131.293	99-100%	Press. Gas (Comp.) H280
	231-172-7			

For explanation of abbreviations see Section 16.

Section 4: First-Aid Measures**Description of first aid measures:****In case of inhalation:** Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.**In case of skin contact:** If on skin, rinse well with warm water.**In case of eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.**Most important symptoms and effects, both acute and delayed:**

None known.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically. Show this safety data sheet to a physician or emergency room.**Section 5: Fire-Fighting Measures****Extinguisher media:****Suitable extinguisher media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Unsuitable extinguishing media:** High volume water jet.**Special hazards arising from the mixture:** Heat from fire can build pressure in the cylinder and cause it to rupture.**Advice for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.**Further information:** Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Section 6: Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:****Personal precautions:** Use personal protective equipment. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for containment and cleaning up:

Methods for cleaning up: Shut off the flow if safe to do so. Ventilate the area.

Reference to other sections:

Treat recovered material as described in the section "Disposal considerations".

Section 7: Handling and Storage

Precautions for safe handling:

Advice on safe handling: Protect cylinders from damage. Do not drag, roll, or drop cylinders. Check for leaks using soapy water, do not use a flame. Never attempt to lift a cylinder by the cap. Never insert an object (e.g. screwdriver) into cap openings, as this may damage the valve and cause a leak. Open valve slowly. If the valve is hard to open, discontinue use and contact your supplier.

Hygiene measures: Do not eat, drink or smoke when using this product.

Conditions for safe storage, including incompatibilities:

Requirements for storage areas and containers: Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place. Store in temperatures not exceeding 52°C.

Section 8: Exposure Controls/Personal Protection

Control parameters:

Occupational exposure limits: Contains no substances with occupational exposure limit values.

Exposure controls:

Appropriate engineering controls: No data available.

Individual protection measures, such as personal protective equipment:

Eye protection: No personal eye protective equipment normally required.

Hand protection: No personal hand protective equipment normally required. If discomfort is experienced, wear protective gloves.

Respiratory protection: No personal respiratory protective equipment normally required.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance (form): Gas.

Colour: Colourless.

Odour: Odourless.

Odour threshold: No data available.

Molecular Weight: 131.293

pH (concentration): No data available.

Melting point/range (°C): No data available.

Boiling point/range (°C): -108.11 °C

Freezing point (°C): -111°C

Flash point (°C): No data available.

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Ignition temperature (°C): No data available.

Upper/lower flammability/explosive limits: No data available.

Vapour pressure (20 °C): No data available.

Vapour density: 0.00547 g/ml @ 21.1 °C

Relative density (25 °C): No data available.

Water solubility (g/L) at 20 °C: No data available.

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity, dynamic (mPa s): No data available.

Explosive properties: The substance or mixture is not classified as explosive.

Oxidising properties: The substance or mixture is not classified as oxidizing.

Section 10: Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: No data available.

Incompatible materials: None.

Hazardous decomposition products: No decomposition if stored and applied as directed.

Section 11: Toxicological Information

Information on toxicological effects:

Not classified based on available information.

Classification according to GHS (1272/2008/EG, CLP)

Skin corrosion/irritation:

Not classified based on available information.

Serious eye damage/eye irritation:

Not classified based on available information.

Respiratory or skin sensitisation:

Not classified based on available information.

Germ cell mutagenicity:

Not classified based on available information.

Carcinogenicity:

Not classified based on available information.

Reproductive toxicity:

Not classified based on available information.

Specific target organ toxicity – single exposure (STOT):

Not classified based on available information.

Specific target organ toxicity (STOT) – repeated exposure:

Not classified based on available information.

Aspiration toxicity:

Not classified based on available information.

Section 12: Ecological Information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT& vPvB assessment: Not relevant.

Other adverse effects: No data available.

Section 13: Disposal Considerations

Waste treatment methods: Dispose of in accordance with municipal, provincial and national regulations.

Product/packaging disposal: Do not re-use empty containers.

Section 14: Transport Information

UN Number: 2036

UN Proper Shipping Name: XENON

Transport Hazard Classes: Class 2.2

Hazard labels:



Section 15: Regulatory Information

EU regulations:

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I
Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use:

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Not regulated.

Other EU regulations:

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Always applicable.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations: The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations: Follow national regulation for work with chemical agents.

Chemical safety assessment: No Chemical Safety Assessment has been carried out.

Section 16: Other Information

List of abbreviations:

Not available.

References:

Not available.

Full text of any H-statements not written out in full under Sections 2 to 15:

H280 Contains gas under pressure; may explode if heated.

Revision information:

None.

Training information:

Follow training instructions when handling this material.

Further Information:

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.

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