Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### Inoxline X2 Date of issue: 03/03/2017

SDS reference: LAT-O2-Ar-001

Supersedes: 03/03/2017

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Version: 1.1



# Warning

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
Trade name	: Inoxline X2		
SDS no	: LAT-O2-Ar-001		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Relevant identified uses	: Industrial and professional. Perform risk assessment prior to use. Contact supplier for more information on uses.		
Uses advised against	: Consumer use.		
1.3. Details of the supplier of the safety data sheet			
Company identification	: Elme Messer L		
	Katlakalna iela 9		
	LV-1073 Rīga Latvija		
	00371 67355445		
	www.elmemesser.lv		
	eml@eml.lv		
1.4. Emergency telephone number			
Emergency telephone number	: 112 (24h) Elme Messer L +371 67355445		

### **SECTION 2: Hazards identification**

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#### 2.1. Classification of the substance or mixture

Physical hazards Press. Gas (Comp.) H280 Calculation method	
Full text of H-statements see section 16.	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP) : GHS04	
Signal word (CLP) : Warning	
Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated	
Precautionary statements (CLP)	
- Storage : P403 - Store in a well-ventilated place	
2.3. Other hazards : Asphyxiant in high concentrations.	

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances : Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Argon	(CAS-No.) 7440-37-1 (EC-No.) 231-147-0 (EC Index-No.) (REACH-no) *1	balance	Press. Gas (Comp.), H280
Oxygen	(CAS-No.) 7782-44-7 (EC-No.) 231-956-9 (EC Index-No.) 008-001-00-8 (REACH-no) *1	2	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of H-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

\*1: Listed in Annex IV / V REACH, exempted from registration.

\*2: Registration deadline not expired.

\*3: Registration not required: Substance manufactured or imported < 1t/y.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

- Inhalation	<ul> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> </ul>	
- Skin contact	: Adverse effects not expected from this product.	
- Eye contact	: Adverse effects not expected from this product.	
- Ingestion	: Ingestion is not considered a potential route of exposure.	
4.2. Most important symptoms and effects, both acute and delayed		

 In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Refer to section 11.

4.3. Indication of any immediate medical attention and special treatment needed

: None.

# SECTION 5: Firefighting measures 5.1. Extinguishing media - Suitable extinguishing media : Water spray or fog. - Unsuitable extinguishing media : Do not use water jet to extinguish. 5.2. Special hazards arising from the substance or mixture

Specific hazards: Exposure to fire may cause containers to rupture/explode.Hazardous combustion products: None.5.3. Advice for firefighters

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Specific methods	<ul> <li>Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> </ul>
Special protective equipment for fire fighters	<ul> <li>In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> </ul>

#### **SECTION 6: Accidental release measures**

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

	<ul> <li>Act in accordance with local emergency plan.</li> <li>Try to stop release.</li> <li>Evacuate area.</li> <li>Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.</li> <li>Ensure adequate air ventilation.</li> <li>Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.</li> <li>Stay upwind.</li> <li>Oxygen detectors should be used when asphyxiating gases may be released.</li> </ul>			
6.2. Environmental precautions				
	Try to stop release.			
6.3. Methods and material for containment and cleaning up				
	Ventilate area.			
6.4. Reference to other sections				
	See also sections 8 and 13.			
SECTION 7: Handling and storage				

#### 7.1. Precautions for safe handling

Only experienced and properly instructed persons should handle gases unde Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks befor Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its su temperature. Contact your gas supplier if in doubt. Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into atmosphere.	
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Safe handling of the gas receptacle       : Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) design to transport cylinders. Leave valve protection caps in place until the container has been secured against either a sor bench or placed in a container stand and is ready for use. If user experiences any difficulty operating cylinder valve discontinue use and contact supp Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.			
7.2. Conditions for safe storage, including any incompatibilities : Observe all regulations and local requirements regarding storage of containers.			
	Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.		
7.3. Specific end use(s)			
	: None.		

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

OEL (Occupational Exposure Limits) : No data available.

DNEL (Derived-No Effect Level) : No data available.

PNEC (Predicted No-Effect Concentration) : No data available.

#### 8.2. Exposure controls

8.2.1. Appropriate engineering controls			
	Oxygen detectors should be	d local exhaust ventilation. uld be regularily checked for leakages. used when asphyxiating gases may be released. ermit system e.g. for maintenance activities.	
8.2.2. Individual protection measures, e.g. personal protective equipment			
	related to the use of the produced following recommendations s	conducted and documented in each work area to a uct and to select the PPE that matches the relevant hould be considered: nended EN/ISO standards should be selected.	
• Eye/face protection	: Wear safety glasses with side Standard EN 166 - Personal	e shields. eye-protection - specifications	
Skin protection			
- Hand protection	: Wear working gloves when has Standard EN 388 - Protective	andling gas containers. gloves against mechanical risk.	
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: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.	
<ul> <li>Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>	
: None in addition to the above sections	
: None necessary.	

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance

••	
<ul> <li>Physical state at 20°C / 101.3kPa</li> </ul>	: Gas.
• Colour	<ul> <li>Mixture contains one or more component(s) which have the following colour(s): Colourless.</li> </ul>
Odour	: Odourless.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
pH value	: Not applicable for gases and gas mixtures.
Molar mass	: Not applicable for gas mixtures.
Melting point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gases and gas mixtures.
Evaporation rate (ether=1)	: Not applicable for gases and gas mixtures.
Flammability range	: Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Relative density, gas (air=1)	: Heavier than air.
Solubility in water	: No data available
Partition coefficient n-octanol/water [log Kow]	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition point [°C]	: Not applicable.
Viscosity [20°C]	: No reliable data available.
Explosive Properties	: Not applicable.
Oxidising Properties	: Not applicable.
9.2. Other information	
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

## **SECTION 10: Stability and reactivity**

10.1. Reactivity

	· No reactivity bazard other th	nan the effects described in sub-sections below.
10.2. Chemical stability		
	: Stable under normal conditi	ons.
10.3. Possibility of hazardous read	tions	
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	: None.
10.4. Conditions to avoid	: None under recommended storage and handling conditions (see section 7). Avoid moisture in installation systems.
10.5. Incompatible materials	: None. For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological informa	·

11.1. Information on toxicological effects	
Acute toxicity	: No toxicological effects from this product.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.

# **SECTION 12: Ecological information**

<u>12.1. Toxicity</u>		
Assessment	: No ecological damage caused by this product.	
12.2. Persistence and degradability		
Assessment	: No ecological damage caused by this pro	oduct.
12.3. Bioaccumulative potential		
Assessment	: No data available.	
<u>12.4. Mobility in soil</u>		
Assessment	: Because of its high volatility, the product Partition into soil is unlikely.	is unlikely to cause ground or water pollution.
12.5. Results of PBT and vPvB assessment		
Assessment	: Not classified as PBT or vPvB.	
12.6. Other adverse effects		
	: No known effects from this product.	
Effect on the ozone layer	: None.	
Effect on global warming	: No known effects from this product.	
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SECTION 13: Disposal considerat	ions	
13.1. Waste treatment methods		
	May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original cylinder to supplier.	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.	
13.2. Additional information	: External treatment and disposal of waste should comply with applicable local and/or national regulations	
SECTION 14: Transport information	on	
<u>14.1. UN number</u>		
UN-No.	: 1956	
14.2. UN proper shipping name		
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Argon, Oxygen)	
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Argon, Oxygen)	
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Argon, Oxygen)	
<u>14.3. Transport hazard class(es)</u>		
Labelling		
	2.2 : Non flammable, non-toxic gases	
Transport by road/rail (ADR/RID)		
Class	: 2	
Classification code	: 1A : 20	
Hazard identification number Tunnel Restriction	E - Passage forbidden through tunnels of category E	
Transport by air (ICAO-TI / IATA-DGR)		
Class / Div. (Sub. risk(s))	: 2.2	
Transport by sea (IMDG)		
Class / Div. (Sub. risk(s))	: 2.2	
Emergency Schedule (EmS) - Fire	: F-C	
Emergency Schedule (EmS) - Spillage	: S-V	
14.4. Packing group		
Transport by road/rail (ADR/RID)	: Not applicable	
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable	
Transport by sea (IMDG)	: Not applicable	
14.5. Environmental hazards		

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: None. : None. : None.
· None
. None.
: P200
: 200
: 200
: P200
<ul> <li>Avoid transport on vehicles where the load space is not separated from the driver's compartment.</li> <li>Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.</li> <li>Before transporting product containers: <ul> <li>Ensure there is adequate ventilation.</li> <li>Ensure that containers are firmly secured.</li> <li>Ensure cylinder valve is closed and not leaking.</li> <li>Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> <li>Ensure valve protection device (where provided) is correctly fitted.</li> </ul> </li> </ul>

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable.

# **SECTION 15: Regulatory information**

<u>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</u> EU-Regulations		
Restrictions on use	: None.	
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.	
National regulations		
National legislation	: Ensure all national/local regulations are observed.	
Water hazard class (WGK)	: -	
15.2. Chemical safety assessment		
	: A CSA does not need to be carried out for this product.	

SECTION 16: Other informati	on		
Indication of changes	: Revised safety data sheet in	n accordance with commission regulation (EU) No	2015/830.
Abbreviations and acronyms	(EC) No 1272/2008. REACI Chemicals Regulation (EC) Commercial Chemical Subs Protection Equipment. LC5 Management Measures. Pe and Very Bioaccumulative. - Chemical Safety Assessm European Agreement conce IATA - International Air Trai	te. CLP - Classification Labelling Packaging Regul I - Registration, Evaluation, Authorisation and Res No 1907/2006. EINECS - European Inventory of E tances. CAS# - Chemical Abstract Service number ) - Lethal Concentration to 50 % of a test population T - Persistent, Bioaccumulative and Toxic. vPvB - STOT- SE : Specific Target Organ Toxicity - Single ent. EN - European Standard. UN - United Nations erning the International Carriage of Dangerous Good isport Association. IMDG code - International Mari oncerning the International Carriage of Dangerous	triction of xisting r. PPE - Personal n. RMM - Risk Very Persistent e Exposure. CSA . ADR - . ADR - . ds by Road. time Dangerous
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Training advice	: The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Further information

Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Classification in accordance with the calculation methods of Regulation

(EC) 1272/2008 CLP.

Full text of H- and EUH-statements

Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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