



SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1Product identifiers

Product name

: Nitrogen

Brand

SAM

CAS-No.

: 7727-37-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Stanford Advanced

Company

: Materials

23661 Birtcher Dr.

Lake Forest, CA 92630

USA

Telephone

+1 (949) 407-8904

Fax

: +1 (949) 812-6690

1.4 Emergency telephone number

Emergency Phone #

+1 (949) 407-8904

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Gases under pressure (Compressed gas), H280

Simple Asphyxiant,

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

 \Diamond

Signal word

Warning

Hazard statement(s)

H280

Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

Precautionary statement(s)

P410 + P403

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

2.3Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1Substances

Formula

, N2

Molecular weight

: 28.01 g/mol

CAS-No.

7727-37-9

Hazardous components

Component	 1	 Classification	Concentration
Nitrogen			
		Press. Gas Compr. Gas; SA ;	<= 100 %
	:	 H280,	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment

needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure.

Storage class (TRGS 510): Gases

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

- i.	:** -{;	Remarks	Asphyxia Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Simple asphyxiant; see discussion covering Minimal Oxygen Content found in the 'Definitions and Notations' section following the NIC tables
	:		See Appendix F: Minimal Oxygen Content Asphyxia Simple asphyxiant; see discussion covering Minimal Oxygen Content found in the 'Definitions and Notations' section following the NIC tables

Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Chloroprene

Minimum layer thickness: 0.6 mm

Break through time: 30 min

Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:

EN374

Precautions

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1

Info	rmation on basic physic	al and chemical properties	,				
a)	Appearance	Form: Compressed gas Colour: colourless					
b)	Odour	odourless					
c)	Odour Threshold	No data available					
d)	pH	No data available	,				
e)	Melting point/freezing point	Melting point/range: -210 °C	(-346 °F) - I	it.			
f) ;	Initial boiling point and boiling range	-196 °C (-321 °F) - lit.	1.				
g) į	Flash point	Not applicable					
h)	Evaporation rate	No data available					
i)	Flammability (solid, gas)	No data available					
j)	Upper/lower flammability or explosive limits	No data available					
k) ;	Vapour pressure	No data available	;				
l) '	Vapour density	No data available					
m)	Relative density	0.97 g/cm3					
n)	Water solubility	No data available	, '				
0)	Partition coefficient: n-octanol/water	No data available	0.				
. ,	Auto-ignition temperature	No data available					
q) _;	Decomposition temperature	No data available	:.	; '			
r)	Viscosity	No data available					
s), , '	Explosive properties	No data available		;			
t)	Oxidizing properties	No data available					

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: QW9700000

May be harmful., Nausea, Headache, Vomiting, Acts as a simple asphyxiant by displacing air. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1066

Class: 2.2

Proper shipping name: Nitrogen, compressed

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 1066

Class: 2.2

EMS-No: F-C, S-V

Proper shipping name: NITROGEN, COMPRESSED

IATA

UN number: 1066

Class: 2.2

Proper shipping name: Nitrogen, compressed

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Sudden Release of Pressure Hazard. Acute Health Hazard

Massachusetts Right To Know Components

 CAS-No.
 Revision Date

 Nitrogen
 7727-37-9
 1993-04-24

Pennsylvania Right To Know Components

CAS-No. Revision Date

New Jersey Right To Know Components										
Nitrogen			. '	1	1		7727-37-9	1	1993-04-24	

 CAS-No.
 Revision Date

 Nitrogen
 7727-37-9
 1993-04-24

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

May displace oxygen and cause rapid suffocation.

H280 Contains gas under pressure; may explode if heated.

Press. Gas
SA
Gases under pressure
Simple Asphyxiant

HMIS Rating

Health hazard: 0
Chronic Health Hazard: Flammability: 1
Physical Hazard 1

NFPA Rating

Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0
Special hazard.1: SA

Further information

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