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1.

- : (Nitrogen, refrigerator liquid)
- : (Nitrogen)
- / : (Liquid Nitrogen), LIN, (Cryogenic Liquid Nitrogen), Refrigerated Liquid Nitrogen , (Nitrogen)
- : N2

:
: 538 J-Tower, A 6
: (02) 3019-2500 FAX : (02) 525-9770
:
: ALK HSE

2.

- : > 99%
- CAS : 7727-37-9
- (Exposure Limits)
 - 1) OSHA : PEL-TWA (Not established)
 - 2) ACGIH: TLV-TWA (Simple asphyxiant)
 - 3) NIOSH : IDLH (Not established)

3.

- (Emergency overview) , , 가 19.5% 가 (SCBA)
- 696.5 가
- : 061-690-9700 (24 /365)
- 1) :

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- (Flammable Limits) : 가 (Nonflammable)
- : 가 , 가
- : 가 , 가
- 가) (SCBA)가
- : 가 , 가 ()가
- 가 가 , 가
- : (None).

6.

: 가 , 가 (,) 가

7.

- (Storage) : 가 , 가
- CGA 가 4.) • 8.
- (Handling) : 가 가

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(Connection)

(Adapter)

가

- 가 : , .
가 , .
()

- 가

8.

- (Engineering Control)
: 가19.5%
- : 가
- : 가
- : 가
- : 가
- : 가

9.

- : ,
- : 28.01
- (1) : -195.8
- (=1) : 0.967
- / : -209.9
- : 21.1
- (21.1 , 1) : 1.153kg/m³
- (/ , 0) : 0.023
- (, 21.1) : 1 696.5

10.

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- (Chemical stability) : (stable)
- : .
- (Incompatibility) : .
- (Reactivity)
 - 1) : .
 - 2) : .

11.

- 가 .

12.


- 78% .
- Class1 Class2 ,
- DOT() (Marine Pollutants) .

13.

- : .
- 가
- : , 가
- 가 .

14.

- (DOT Shipping Name) : (Nitrogen, Refrigerated liquid)
- (Hazard Class) : 2.2 (가)
- (Identification Number) : UN1977
- (Shipping Label): 가 (Nonflammable Gas)
- : 가
- : 가 () 가 가 ,
- () , ()
- (49 CFR 173.301)
- 가 가 (
-) , 가 가

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15.

- : .
- 1) : .
- 2) : .
- 3) : .
- 4) 가 : , , , .
- : .
- 1) CERCLA (40CFR Parts 117 302): Reportable Quantity(RQ) .
- 2) SARA 302/304 (40CFR 355): .
- 3) SARA 311/312 (40 CFR 370): .
: , : , : , : , : .
- 4) SARA 313 (40 CFR 372): .
- 5) TSCA(Toxic Substance Control Act) : TSCA .
- 6) OSHA (29CFR1910.119): .

16.

- NFPA (N2)
- 1) (Health) : 0
- 2) 가 (Flammability) : 0
- 3) (Reactivity) : 0
- 4) (Special) : SA (Simple Asphyxiant :) NFPA
(The National Fire Protection Association(NFPA) System of Hazard Identification)
- HMIS (N2)
- 1) (Health) : 0
- 2) 가 (Flammability): 0
- 3) (Reactivity) : 0
- HMIS NPCA
Hazardous Material Identification System (National Paint and Coating Association- NPCA)

가

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가

(Compatibility)

MSDS

(European Directives)

가

AIR LIQUIDE S.A.

MSDS ALK