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|--|-------------------------------------|---------|-------------|
|  <b>AIR LIQUIDE</b> | <b>(Material Safety Data Sheet)</b> | Doc.No. | MSDS-M-002  |
|  |                                     | Rev.No. | 0           |
|  |                                     | Date    | Apr.15.2005 |
| <b>(Methane, Refrigerated)</b>   |                                     | Pages   | 1 / 7       |

**1.**

: (METHANE, REFRIGERATED)  
 / :  
 DAMP(FIRE DAMP); 가 (MARSH GAS); (METHYL HYDRIDE);  
 가 (NATURAL GAS); LNG;UN 1972;STCC 4905756; CH4;R50;OHS14161; RTECS  
 PA1490000  
 : ,  
 : (AL America)  
 : 2700 Post Oak Drive Houston, TX 77056-8229  
 :  
 :  
 : 538 J-Tower, A 6  
 : (02) 3019-2500 FAX : (02) 525-9770  
 : ALK HSE


**2.**

: (METHANE, REFRIGERATED)  
 CAS : 74-82-8  
 (EC) (EINECS): 200-812-7  
 EC : 601-001-00-4  
 (%): >99.9  
 :  
 MERCAPTAN MAY BE ADDED AS AN ODORIZER

**3.**

NFPA (0-4 ): =0 =4 =0  
 :  
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 : 가  
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|--|-------------------------------------|---------|-------------|
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가 : 가

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가

가

가

: 가

: 0.8 Km (1/2 ).

가

:500m(1/3 ).

. 가

: -369 F (-223 C)

: 5.0%

: 15%

: 999 F (537 C)

**6.**

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가

**7.**

:

가

NFPA 59A


: U.S. OSHA29 CFR 1910.106.

**8.**

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(METHANE, REFRIGERATED)

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|  |                                     |         |             |
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 ( )  
 : 가 : ,  
 : 가 가  
 ( )  
 ( )

**9.**

: 가  
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 :  
 :  
 : 16.04  
 : C-H4  
 : -260 F (-162 C)  
 : -297 F (-183 C)  
 : 760 mmHg @ -161 C  
 ( =1): 0.555  
 ( =1): 0.466 @ -162 C  
 : 3.5% @ 17 C  
 (pH):  
 :  
 :  
 :  
 : 0.202 cP @ -180 C  
 / :  
 가 :  
 가 : , ,

**10.**

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가 : , , .

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**11.**

(METHANE, REFRIGERATED):

:

50pph/2 - LC50

:

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**12.**

**13.**

: U.S. EPA 40 CFR 262. : D001.

**14.**

U.S. DOT 49 CFR 172.101:

:

ID : UN1972

: 2.1

: 2.1

U.S. DOT 49 CFR 172.101 :

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**15.**

(METHANE, REFRIGERATED)

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MSDS (European Directives) , 가

AIR LIQUIDE S.A. MSDS ALK .