

2009年 04月 23日

環境關理 物質 不使用 證明書

會社名：히로세코리아(주)

部 署：품질경영팀

責任者：차 재환 차장



貴社에 販賣하는 製品 및 製品의 使用材料, 包裝材, 製造工程에
含有되는 添加劑 等に 對하여 貴社가 要求하는 管理水準
(使用禁止對象)의 物質을 使用하고 있지 않음을 證明합니다.

當社의 製品 및 製品의 使用材料, 包裝材, 製造工程에 含有되는
添加劑 等に 對하여 以下の 成分으로 構成되어 있음을 報告 합니다.

(1) 製品 使用素材

NO	제품명	부품명	원자재명	원자재 MAKER	비 고
1	HIF3H-26DA-2.54DSA	CASE PROTECTOR	PBT 1550GN30	삼양사	
		PIN	C5210R	풍산	

(2) 測定可能物質의 ICP Data는 別紙 參照 要望

(3) 測定可能物質의 成分 分析 Data는 別紙 參照 要望

以 上



Test Report No. F690501/LF-CTSAYAA08-14503

Issued Date: May 21, 2008

Page 1 of 2

To: SAMYANG CORP.
407-3ga, Palbok-dong
Deokjin-gu
Jeongju-city
JEONBUK 561-203
Korea

The following merchandise was submitted and identified by the client as :

Product Name : 1550GN30 BK(H)
SGS File No. : AYAA08-14503
Received Date : May 15, 2008
Test Performing Date : May 16, 2008
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

Pluto Kim
Monet Jeong
Billy Oh / Testing Person

SGS Testing Korea Co. Ltd.

Jeff Jang / Chemical Lab Mgr

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Sample No. : AYAA08-14503.001

Sample Description : 1550GN30 BK(H)

Item No./Part No. : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996), ICP	0,5	N.D.
Lead (Pb)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996), ICP	5	N.D.
Mercury (Hg)	mg/kg	US EPA 3052(1996), US EPA 6010B(1996), ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A(1996), US EPA 7196A(1992), UV	1	N.D.

Picture of Sample as Received:

Sample Color : Black



*** End ***

- NOTE:
- (1) N.D. = Not detected (<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable

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Test Report No. F690501/LF-CTSAYAA08-13132B

Issued Date: May 08, 2008

Page 1 of 3

To: SAMYANG CORP.
407- 3ga, Palbok-dong
Deokjin-gu
Jeongju-city
JEONBUK 561-203
Korea

The following merchandise was submitted and identified by the client as :

Product Name : 1550GN30 BK(H)
SGS File No. : AYAA08-13132B
Received Date : April 30, 2008
Test Performing Date : May 01, 2008
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)
Comments : This Report supersedes the Report No.F690501/LF-CTSAYAA08-13132 dated May 08,2008 issued by SGS Testing Korea Co.,Ltd. This report was separated from AYAA08-13132 by client's request.

Pluto Kim
Monet Jeong
Billy Oh / Testing Person

SGS Testing Korea Co.,Ltd.

Jeff Jang / Chemical Lab Mgr

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TS/AT/OC/WH/2

Test Report No. F690501/LF-CTSAYAA08-13132B

Issued Date: May 08, 2008

Page 2 of 3

Sample No. : AYAA08-13132B.001

Sample Description : 1550GN30 BK(H)

Item No./Part No. : N/A

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromobiphenyl	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Monobromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Dibromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tribromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Octabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.
Decabromodiphenyl ether	mg/kg	US EPA 3540C, GC/MS	5	N.D.

- NOTE:
- (1) N.D. = Not detected (<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable

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Picture of Sample as Received:

Sample Color :

Black



*** End ***

- NOTE:
- (1) N.D. = Not detected.($<$ MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable

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SAM YANG

263, Yeonji-Dong, Chongno-Gu Seoul, Korea TEL:82-63-210-6682, FAX:82-63-210-6677

PRODUCT CERTIFICATE

JAN 17. 2008

1. Supplier : Samyang Corporation
2. Address : #263 Yeonji-Dong, Chongno-Gu Seoul, Korea

TBBP-A

		CODE NO,	TBBP-A (ppm)
1	TRIBIT 1550GN30 BK(H)	1769F	48
2	TRIBIT 1500GN30 GY	1768F	60
3	TRIBIT 1500GN15 BK	1639A	-
4	TRIBIT 1550GN30 BEIGE	1763B	-
5	TRIREX 3500G30 BL	4266A	-

* TBBP-A TBBP-A
 (TEST METHOD : USEPA 3540C, GC/MS by SGS testing Korea)

* TBBP-A(CAS NO. 79-94-7)

SAM YANG CORP.

H .J. Lee
MANAGER
JEON-JU EP PLANT
AM BU

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING()

PRODUCT NAME() TRIBIT 1550GN30

SUPPLIER()

263

2. COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL DESCRIPTION OF CHEMICAL CHARACTER(,)

Polybutylene Terephthalate

HAZARDOUS INGREDIENTS() CAS NO HAZARD RISK PHRASES SYMBOL

PolyButyleneterephthalate : 026062-94-2

Flame retardant : 68928-70-1, 001309-64-4

Glass fiber : 065997-17-3 (30%)

3. HAZARDOUS IDENTIFICATION()

4. FIRST AID MEASURES()

EYES() 가

SKIN()

INGESTION()

5. FIRE FIGHTING MEASURES()

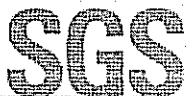
EXTINGUISHING MEDIA ()

, , , FOAM, ,

UNUSUAL FIRE AND EXPLOSION HAZARD()

PROTECTIVE EQUIPMENT()

가



Test Report No. F690501/LF-CTSAYAU08-09731C

Issued Date: December 02, 2008 Page 1 of 3

To: POONGSAN CORPORATION
611 Daejung-ri Onsan-eup
Uiju
ULSAN
KOREA

The following merchandise was submitted and identified by the client as :

Product Name : C5210
SGS File No. : AYAU08-09731C
Received Date : November 27, 2008
Test Performing Date : November 28, 2008
Test Performed : SGS Testing Korea tested the sample(s) selected by applicant with following results
Test Results : For further details, please refer to following page(s)

SGS Testing Korea Co. Ltd. / Gimhae Laboratory

Sharpless Park
Annie Lim
Helen Yeo /Testing Person

Thomas Hwang / Gimhae Lab. Mgr

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044-350-7100 / 044-350-7101 / 044-350-7102 / 044-350-7103 / 044-350-7104 / 044-350-7105 / 044-350-7106 / 044-350-7107 / 044-350-7108 / 044-350-7109 / 044-350-7110 / 044-350-7111 / 044-350-7112 / 044-350-7113 / 044-350-7114 / 044-350-7115 / 044-350-7116 / 044-350-7117 / 044-350-7118 / 044-350-7119 / 044-350-7120 / 044-350-7121 / 044-350-7122 / 044-350-7123 / 044-350-7124 / 044-350-7125 / 044-350-7126 / 044-350-7127 / 044-350-7128 / 044-350-7129 / 044-350-7130 / 044-350-7131 / 044-350-7132 / 044-350-7133 / 044-350-7134 / 044-350-7135 / 044-350-7136 / 044-350-7137 / 044-350-7138 / 044-350-7139 / 044-350-7140 / 044-350-7141 / 044-350-7142 / 044-350-7143 / 044-350-7144 / 044-350-7145 / 044-350-7146 / 044-350-7147 / 044-350-7148 / 044-350-7149 / 044-350-7150 / 044-350-7151 / 044-350-7152 / 044-350-7153 / 044-350-7154 / 044-350-7155 / 044-350-7156 / 044-350-7157 / 044-350-7158 / 044-350-7159 / 044-350-7160 / 044-350-7161 / 044-350-7162 / 044-350-7163 / 044-350-7164 / 044-350-7165 / 044-350-7166 / 044-350-7167 / 044-350-7168 / 044-350-7169 / 044-350-7170 / 044-350-7171 / 044-350-7172 / 044-350-7173 / 044-350-7174 / 044-350-7175 / 044-350-7176 / 044-350-7177 / 044-350-7178 / 044-350-7179 / 044-350-7180 / 044-350-7181 / 044-350-7182 / 044-350-7183 / 044-350-7184 / 044-350-7185 / 044-350-7186 / 044-350-7187 / 044-350-7188 / 044-350-7189 / 044-350-7190 / 044-350-7191 / 044-350-7192 / 044-350-7193 / 044-350-7194 / 044-350-7195 / 044-350-7196 / 044-350-7197 / 044-350-7198 / 044-350-7199 / 044-350-7200



Test Report No. F690501/LF-CTSAYAU08-09731C

Issued Date: December 02, 2008 Page 2 of 3

Sample No. : AYAU08-09731C.001

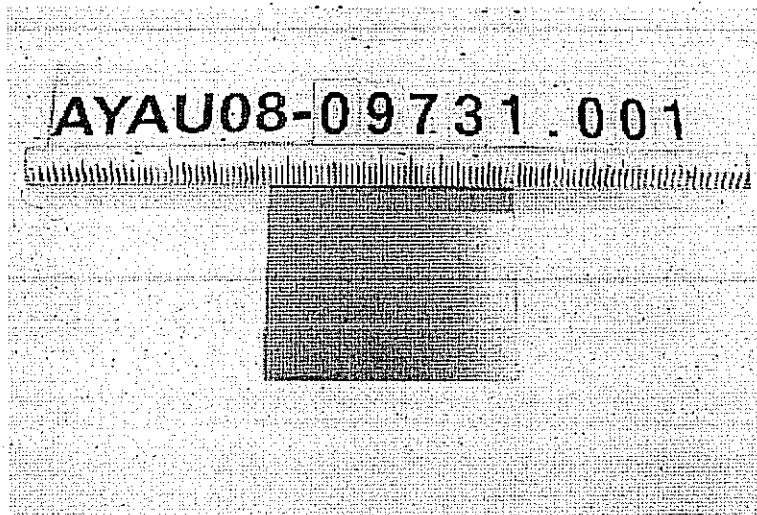
Sample Description : C5210

Item No./Part No. : PBS

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd), IEC 62321	mg/kg	With reference to IEC 62321 Ed.1, ICP-OES	1	N.D.
Lead (Pb), IEC 62321	mg/kg	With reference to IEC 62321 Ed.1, ICP-OES	5	40.0
Mercury (Hg), IEC 62321	mg/kg	With reference to IEC 62321 Ed.1, ICP-OES	2	N.D.
Hexavalent Chromium (Cr VI) By boiling water extraction	**	With reference to IEC 62321 Ed.1	-	Negative

Picture of Sample as Received:

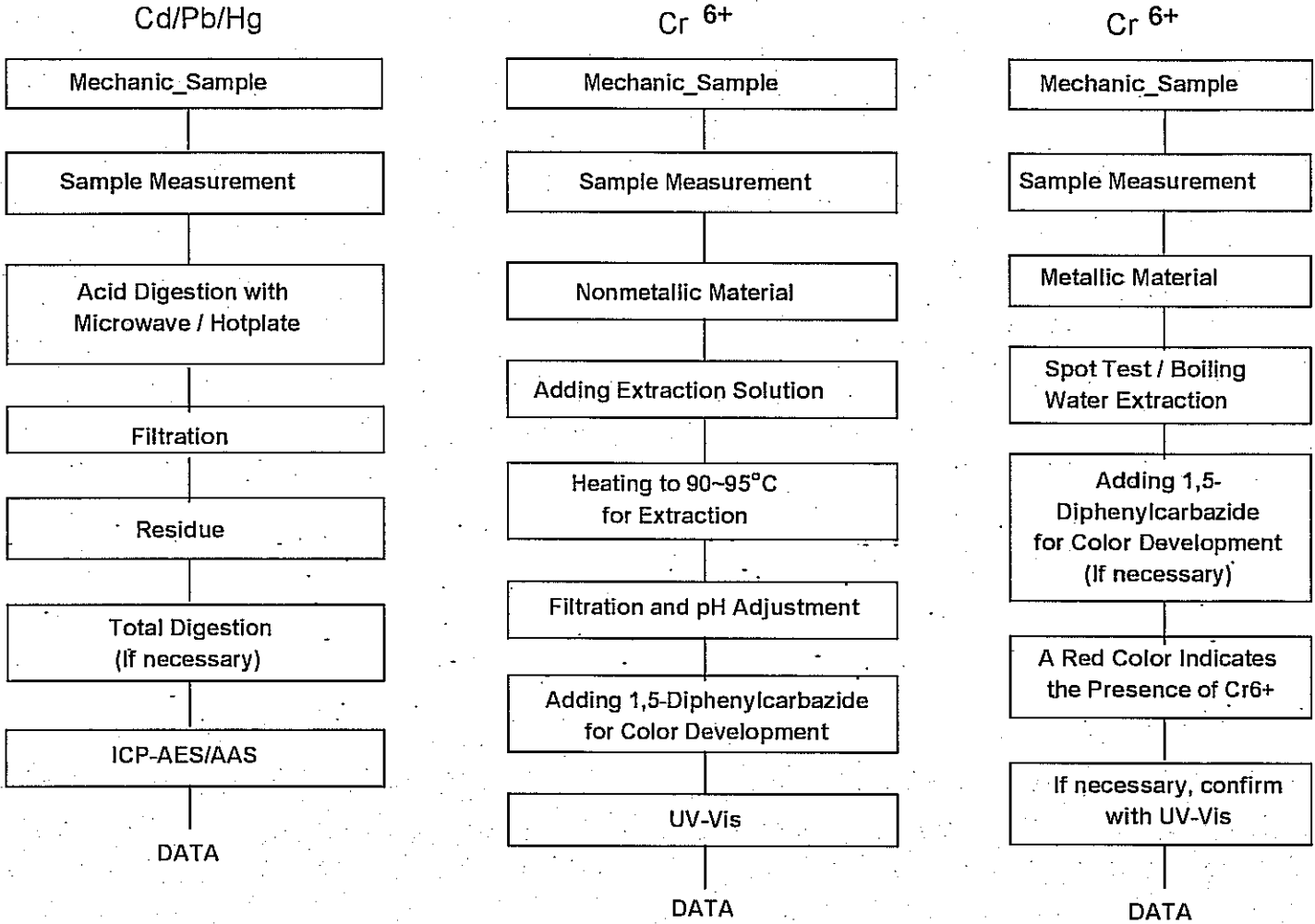


- NOTE:
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 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
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Testing Flow Chart for RoHS: Cd/Pb/Hg/Cr⁶⁺ Testing



Operator : Sharpless Park

Lab Manager : Thomas Hwang

*** End ***

- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
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POONGSAN

주식회사 풍산 온산공장

물질안전보건자료

(Material Safety Data Sheet)

물질명:인청동대(Phosphor bronze)	Page
Cas No :	1/3
발행일자	2006.4.17
개정일자	2007.9.3

1. 제품 및 제조회사 정보

- ① 물질명 : 인청동대 (Phosphor bronze Strip C5102R,C5191R,C5212R,C5210R)
- ② 용도 : 전기부품 외
- ③ 유해성분류 (노동부고시기준) : 자료없음
- ④ 화학적 일반 특성 : 고체
- ⑤ 제조자 주소 / 정보 : (주)풍산 온산공장
주소 : 울산광역시 울주군 온산읍 대정리 611번지
- ⑥ 공급자 주소 / 정보 : (주)풍산
주소 : 서울특별시 중구 충무로 3가 60-1

2. 구성성분 명칭 및 조성

명칭	이명	CAS No	함유량(%)
① Copper	Cu	7440 - 50 - 8	90.8%-96.5%
② Tin	Sn	7440 - 31 - 5	3.5-9.0%
③ Phosphorus	P	7723 - 14 - 0	0.03-0.2%

3. 위험유해성

- ① 유해성분류
CERCLA 지수 : 보건=(0) 화재=(3) 폭발=(1)
- ② 급성영향 : 금속열, 설사, 복통, 현기증, 신경손상, 쇼크, 구토증상, 피부염을 유발할 수 있음
- ③ 만성영향 : 급성영향과 동일하며 탈모, 두통, 폐질환을 병행할 수 있음
- ④ 인체침입경로 : 호흡기, 소화기

4. 응급조치요령

- ① 피부 : 오염된 의복과 신을 벗긴 후 다량의 물로 씻을 것
- ② 눈 : 다량의 물로 씻을 것
- ③ 흡입 : 신선한 공기가 있는 곳으로 옮긴 후 필요에 따라 인공호흡을 시킬 것
- ④ 섭취 : 구토를 하면 흡입을 위해 기도를 확보하고 식염수로 위세척을 할 것
- ⑤ 의사정보 : 즉시 의학적인 조치를 받을 것

5. 화재 및 폭발시 대처방법

- ① 인화점/발화점 : 자료없음
- ② 폭발 : 용융된 상태의 경우 물과 격렬히 반응할 수 있음.
- ③ 소화제 종류 : 분말소화제, 소다 회, 석회 또는 모래를 사용할 것
- ④ 진화방법 : 타는 물질에 물을 뿌리지 말고 모래등을 사용할 것
- ⑤ 유해연소생성물 : 자료없음

6. 누출사고시 대처방법

- ① 개인 보호 조치 : 유출된 물질을 만지지 말고 감독자의 지시를 따를 것
- ② 환경 보호 조치 : 누출된 물질을 회수하여 분리수거 후 재활용할 것
- ③ 사고 후 조치 : 전문가의 지시에 따라 조치할 것

7. 노출 방지 및 개인 보호구

- ① 허용농도
TWA : 10mg / m³ (총분진으로 OSHA 기준)
- ② 공학적인 조치 : 방폭구조로 된 국소 배기장치 및 전체 환기장치를 설치할 것
- ③ 개인보호구 : 보안경, 보호의, 보호장갑, 방진마스크, 기타

8. 취급 및 저장방법

- ① 취급시 주의사항 : 산, 할로겐 화합물, 탄화수소와 격리할 것
용용액에 물유입시 폭발가능성 있음
동분취급 작업시 방진 마스크, 보안경, 보호의 착용
- ② 저장시 주의사항 : 수분방지 대책이 된 건조하고 환기가 잘되는 곳에 보관할 것

9. 안전성 및 반응성

- ① 안정성 : 상온상압에서 안정함
- ② 반응성 : 산 또는 물과 반응하여 인화성이 강한 수소를 발생함
- ③ 피해야 할 조건 : 화합물질과의 혼합(합성)시에는 전문가의 지시를 따를 것
- ④ 피해야 할 물질 : 화학반응시 급격한 분해 또는 폭발가능성 있음

10. 물리 화학적 특성

- ① 외관 : 고체
- ② 냄새 : 무취
- ③ PH : 적용안됨
- ④ 용해도 : 적용안됨
- ⑤ 비점 : 자료없음
- ⑥ 융점 : 1,020℃
- ⑦ 폭발성 : 자료없음
- ⑧ 산화성 : 자료없음
- ⑨ 비중 : 8.80
- ⑩ 증기압 : 적용안됨

11. 독성에 관한 정보

- ① LD50 : 자료없음
- ② LC50 : 자료없음
- ③ 발암성 : 없음

12. 환경에 미치는 영향

- ① 수생 및 생태독성 : 자료없음
- ② 토양이동성 : 자료없음
- ③ 잔류성 및 분해성 : 자료없음
- ④ 동생물의 생체내 축적 가능성 : 자료없음

13. 폐기 시 주의사항

- ① 폐기물관리법상 규제현황 : 미규정
- ② 폐기방법 : 관련규정을 준수하여 폐기할 것
- ③ 폐기 시 주의사항 : 특이사항 없음

14. 운송에 필요한 정보

- ① 선박안전법 위험물선박운송 및 저장규칙에 의한 분류 및 규제 : 자료없음
- ② 운송 시 주의사항 : 자료없음
- ③ 기타 외국의 운송관련 규정에 의한 분류 및 규제 : 자료없음

15. 관련법규에 관한 정보

- ① 산업안전 보건법 : MSDS 작성대상 물질
- ② 환경관리법 : 해당없음
- ③ 소방법 : 해당없음

16. 기타 참고사항

- ① 관련 근거 : 산업안전보건법 제41조 [물질안전보건자료의 작성, 비치 등]
- ② 참고 자료 : 화학물질 및 물리적인자의 노출기준 (노동부 고시 제97-65호)

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