

2009年 02月 09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
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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	PCN10BK-96S-2.54DS	MOLD	PBT 1500GN30	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-CTSAYAA08-14504

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 : 1500GN30 GY
SGS File No. : AYAA08-14504
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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Test Report No. F690501/LF-CTSAYAA08-14504

Issued Date: May 21, 2008

Page 2 of 2

Sample No. : AYAA08-14504.001

Sample Description : 1500GN30 GY

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 : Gray



*** 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-CTSAYAA08-13131B

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 : 1500GN30 GY
SGS File No. : AYAA08-13131B
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-CTSAYAA08-13131 dated May 08,2008 issued by SGS Testing Korea Co.,Ltd. This report was separated from AYAA08-13131 by client's request.

SGS Testing Korea Co. Ltd.

Pluto Kim
Monet Jeong
Billy Oh / Testing Person

Jeff Jang / Chemical Lab Mgr

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Test Report No. F690501/LF-CTSAYAA08-13131B

Issued Date: May 08, 2008

Page 2 of 3

Sample No. : AYAA08-13131B.001

Sample Description : 1500GN30 GY

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.

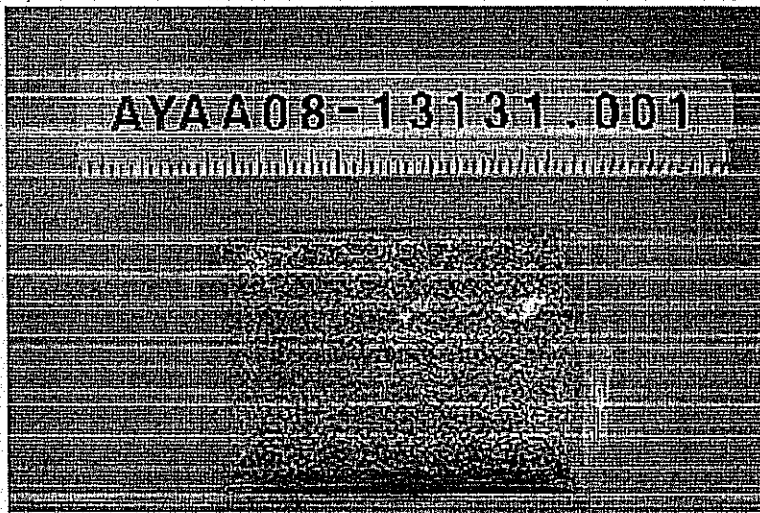
- NOTE:
- (1) N.D. = Not detected. (<MDL)
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Picture of Sample as Received:

Sample Color :

Gray



*** End ***

- NOTE:
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 - (2) mg/kg = ppm
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MATERIAL SAFETY DATA SHEET

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

PRODUCT NAME(제품명) TRIBIT 1500GN30 모든 칼라
SUPPLIER(제조회사) 주식회사 삼양사.
서울특별시 종로구 연지동 263번지.

2. COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL DESCRIPTION OF CHEMICAL CHARACTER(재료의 성분,화학적특성)
유리섬유 와 난연제 를 함유한 Polybuthylene Terephthalate

HAZARDOUS INGREDIENTS(위험성분) Pb,cd,Hg,cr+6의 중금속을 함유하지않음.

CAS NO HAZARD RISK PHRASES SYMBOL

Polybuthylene Terephthalate	26062-94-2
GLASS FIBER	65997-17-3
FLAME RETARDANT	68928-70-1
ANTIMONY TRIOXIDE	1309-64-4

3. HAZARDOUS IDENTIFICATION(위험물)

위험스럽지 않음

4. FIRST AID MEASURES(응급조치)

EYES(눈) 본제품이 눈에 들어가면 물로 씻어내거나 의사에게 진료를 받는다
SKIN(피부) 물로 씻어낸다
INGESTION(섭취) 즉시 의사의 진료를 받는다

5. FIRE FIGHTING MEASURES(화재시 응급조치)

EXTINGUISHING MEDIA (소화물)

물, 소화기, 이산화탄소, FOAM, 모래, 흙등을 뿌린다

UNUSUAL FIRE AND EXPLOSION HAZARD(폭발위험)

갑작스런 화재나 폭발의 위험은 없음.

PROTECTIVE EQUIPMENT(보호장비)

환기가 잘되지 않는 곳에서는 숨을 쉴 수 있는 장비를 준비한다

PRODUCT NAME : TRIBIT 1500GN30 ALL COLOR

6. ACCIDENTAL RELEASE MEASURES(폐기시 조치사항)

- 폐기물 처리시 생물에 거의 무해함
 - 폐기물 처리시 해당관청의 규정에 따라 처리한다
-

7. HANDLING AND STORAGE(취급 및 저장)

HANDLING(취급)

작업장에 적절한 환기, 통풍이 되도록 한다.

건조 및 작업시 적절한 배기가 이루어지는 곳에서 작업을 하며 작업시 보호장갑,보호안경, 보호의 등을 착용하여 화상에 주의해야 한다.

STORAGE(저장)

환기, 통풍이 잘되는 곳에 보관한다

8. EXPOSURE CONTROLS/PERSONAL PROTECTION(취급 시 보호구)

특별한 장비가 요구되지 않는다

9. PHYSICAL AND CHEMICAL PROPERTIES(물리 화학적 성질)

Forms(형태)	고체상, 원통모양의 PELLET
Color(색상)	모든 칼라
Odour(냄새)	무취
PH(산성도)	알려지지 않음
Boiling point (°C)(비등점)	알려지지 않음
Melting point (°C)(녹는점)	224
Flammability(난연성)	V-0 (UL94)
Solubility in water(용해성)	녹지않음
Specific gravity(비중)	1.59
Viscosity(점성)	
Bulk density	
Decomposition temperature(분해온도)	

10 STABILITY AND REACTIVITY(안정 및 반응성)

STABILITY(안정) 안정하다

INCOMPATIBILITY(비상용성) 알칼리에 가수분해 된다

HAZARDOUS DECOMPOSITION PRODUCTS(유해분해물질)

Aliphatic THF생성시 1,3-butadiene,Toluene, Benzoic acid, terephthalic acid가 생성될 수도있다.
불완전 연소시 일산화탄소,이산화탄소를 포함한 독성연기가 난다.

PRODUCT NAME : TRIBIT 1500GN30 ALL COLOR

11. TOXICOLOGICAL INFORMATION(유해물)

통상 성형조건에서 소량의 물, 이산화탄소, THF가 방출 될 수 있다.

12. ECOLOGICAL INFORMATION(환경적 영향)

Water pollution(수질오염) 일반적으로 물을 오염시키지 않는다

13. DISPOSAL CONSIDERATION(폐기시 고려할 사항)

관할 관청의 허가시 가정쓰레기와 함께 폐기하거나 소각해도 된다

14. TRANSPORT INFORMATION(운반시 주의사항)

위험물이 아니므로 특별히 주의를 요하지 않고, 건조하고, 통풍이 잘되게 하여 운반한다

15. REGULATORY INFORMATION(법규표기)

식별표기가 필요하지 않다

16. OTHER INFORMATION(기타)

본 MATERIAL SAFETY DATA SHEET는 TRIBIT 1500GN30 GRADE의 모든 칼라를 포함한다.

이상의 정보는 Polybutylene Terephthalate의 일반적인 참고자료이므로 사용자의 사용처의 환경과 상황에 맞도록 보완하여야 한다



Test Report No. F690501/LF-CTSAYAU08-07617R1 **Issued Date:** May 02, 2008 **Page 1 of 2**

To: POONGSAN CORPORATION
611, Daejung-ri
Onsan-up
Ulju-kun
ULSAN
KOREA

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

Product name : C5210
SGS File No. : AYAU08-07617R1
Received Date : April 25, 2008
Test Performing Date : April 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)
Comments : This Report supersedes the Report No. F690501/LF-CTSAYAU08-07617 dated May 02, 2008 issued by SGS Testing Korea Co., Ltd.

SGS Testing Korea Co. Ltd. / Ulsan Laboratory

Sharpless Park
Annie Lim
Helen Yeo / Testing Person

Thomas Hwang / Ulsan Lab. Mgr

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Test Report No. F690501/LF-CTSAYAU08-07617R1 Issued Date: May 02, 2008

Page 2 of 2

Sample No. : AYAU08-07617R1.001

Sample Description : C5210

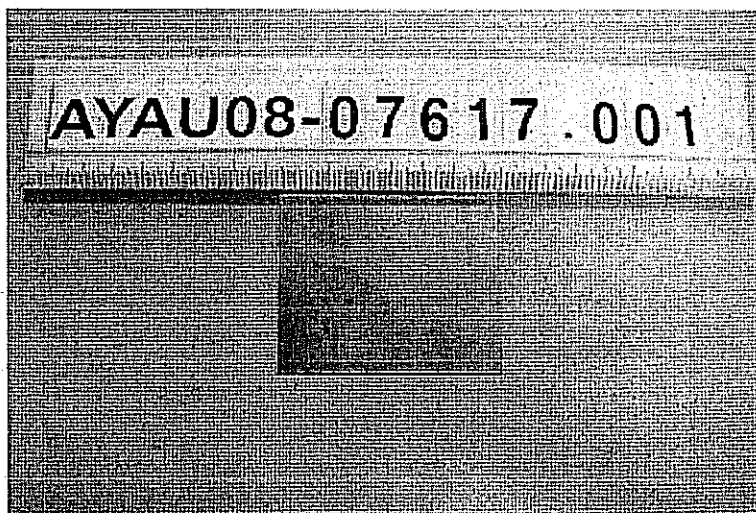
Item No./Part No. : PBS

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	US EPA 3052, ICP-AES	1	N.D.
Lead (Pb)	mg/kg	US EPA 3052, ICP-AES	5	27.0
Mercury (Hg)	mg/kg	US EPA 3052, ICP-AES	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	US EPA 3060A, UV-vis	1	N.D.

Picture of Sample as Received:

Sample Color : Bronze

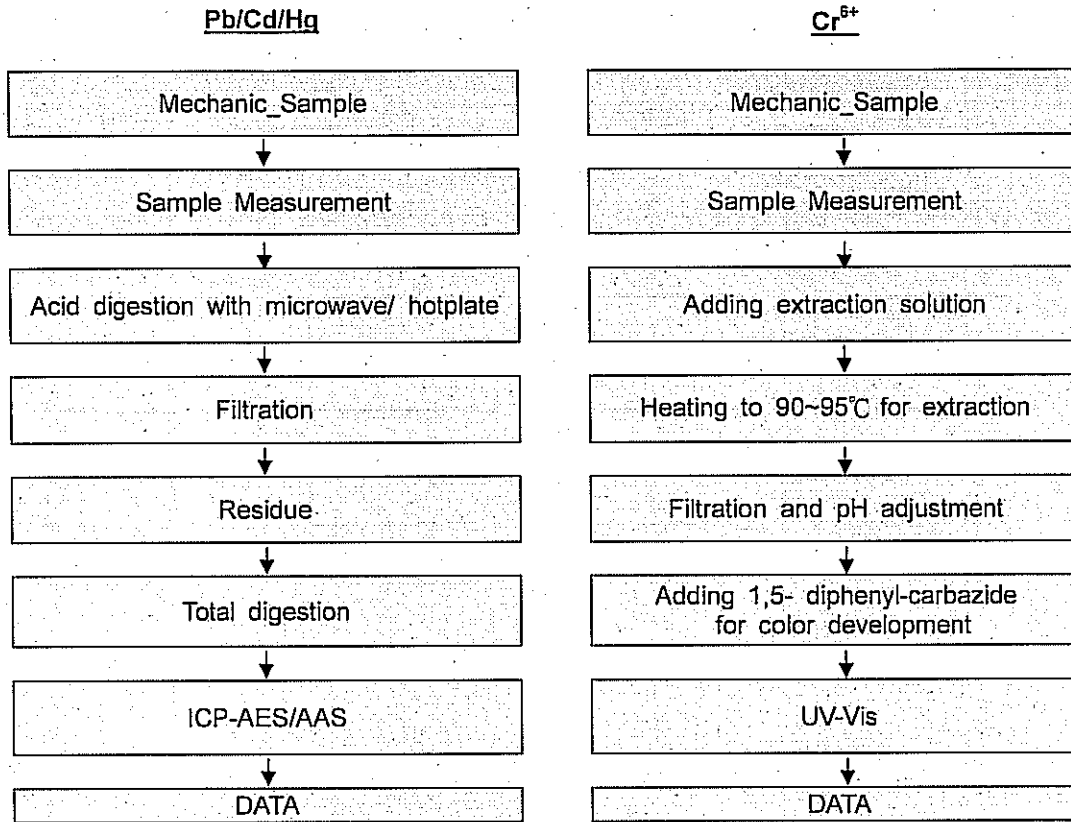


*** End ***

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(2) mg/kg = ppm
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(4) - = No regulation
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Testing Flow Chart for RoHS: Pb/Cd/Hg/Cr⁶⁺ Testing



The samples were dissolved totally by pre-conditioning method according to above flow chart for Cd,Pb,Hg.

Operator	Sharpless Park
Section Chief	Thomas Hwang

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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
용융액에 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)

■ MSDS 관련문의 : (주)풍산 온산공장 시험분석팀 (052-231-9383)