<b>Environmental</b>	Information	per Product

Analysis DATA

	Product Code :	Submission Date :
:	Product Name :	
	Speccification:	

Itei	n			Item-Code							Ro	HS 6							Re	esult
									Ana	lysis	Results(	ppm=m(	g/kg)			F	nalysis DAT/	A		
Tre	e	Title	Name/Spec.	Material	Material	Manufacturing	CAS No.	Cd	Pb		Hg	Cr <sup>+6</sup>	PBB	PBDE	Remarks			1	, ,	Corrective
				Туре	Supplier	process		5	100	0 S	100	100	100	100		Test report MSDS Mil	Mil Sheet	Result	Plan	
		1 XC1CB00400A0	A1-4PA-2.54DSA	TRIBIT 1550GN30			26062-94-2	0	0		0	0	0	0		1-1	1-2			
		2 XC1CB00801A0	A1-8PA-2.54DSA				068928-70-1													
		3 XC1AB01000A0	A2-10PA-2.54DSA				001309-64-4													
		4 XC11B01003A0	HIF3FB-10PA-2.54DS				065997-17-3													
		5 XC1DB01600A0	HIF3FB-16PA-2.54DS	C2680R			7440-50-8	1.7	47		0	0	0	0		2-1	2-2			
		6 XC11B01001A0	HIF3FB-10PA-2.54DSA				7440-66-6													
		7 XC10B01600A0	HIF3FB-16PA-2.54DSA																	
		8 XC1AB02600A0	HIF3FB-26PA-2.54DSA																	
		9 XC1DB01000A0	HIF3H-10DA-2.54DSA	TRIBIT 1550GN30			26062-94-2	0	0		0	0	0	0		1-1	1-2			
	1	0 XC1BB01000A0	HIF3H-10SA-2.54DSA				068928-70-1													
							001309-64-4													
							065997-17-3													
				C5210R			7440-50-8	0	38		0	0	0	0		3-1	3-2			
							7440-31-5													
							7723-31-5													



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**Test Report** 

No. F690101/LF-CTS014091

Date: March 10, 2004

Page 1 of 2

SAMYANG CORP 407, Palbok-dong, 3-Ka, Jeonju-city Cheonbuk, Korea

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

Type of Product

Tribit 1550GN30 BK (H)

SGS File No.

G-49/2004-2156/4

Country of Origin

Korea

Sample Receiving Date:

Mar. 02, 2004

Test Performing Date

Mar. 03, 2004

Test Performed

SGS Testing Korea tested the sample which was selected by applicant with

following result.

Test Results

For further details, please refer to following page.

SGS Testing Korea Co., Ltd.

KHJ/ykj

Jason Han / Lab. Manager

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**Test Report** 

No. F690101/LF-CTS014091

Date: March 10, 2004

Page 2 of 2

### **Heavy Metal Test**

Items	Unit	Test Method	DL	Results
Cadmium (Cd)	mg/kg	USEPA 3050B, ICP-AES	0.5	n. d.
Lead (Pb)	mg/kg	USEPA 3050B, ICP-AES	5	n. d.
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	0.5	n. d.
Hexavalent Chromium (Cr VI)	mg/kg	USEPA 3060A	0.16	n. d.

Note

(1) n. d. = Not detected

(2) D. L = Detection Limit

\*\*\*\*\*\*\*\*\*\*\* End

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Test Report No. F690101/LF-CTS030807 Date: October 6, 2004 Page 1 of 2

SAMYANG CORP. 407, 3-ka, Palbok-dong, Joenju-city, Kyunggi-do, Korea

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

Type of Product : TRIBIT 1550GN30 BK(H)

SGS File No. : G-49/2004-3491/12

Materials : Plastic

Sample Receiving Date : Sep. 23, 2004

Test Performing Date : Sep. 24, 2004

Test Performed : SGS Testing Korea tested the sample which was selected by applicant with

following result.

Test Results : For further details, please refer to following page.

SGS Testing Korea Co., Ltd.

Jae S. Han

Jason Han / Director

HYK/hjp

# SGS Testing Korea Co., Ltd. #18-34, Sanbon-dong, Gunpo-city, Kyunggi-do, Korea 435-040

Tel: 031) 428-5765~6, Fax: 031) 427-2374, InterNet>http://www.sgslab.co.kr

**Test Report** No. F690101/LF-CTS030807 Date: October 6, 2004 Page 2 of 2

### **Flame Retardants**

Note

(1) n. d. = Not detected

Items	Unit	Test Method	D.L.	Results
Polybrominated Biphenyls (PBBs)	-	-	-	-
Bromobiphenyl	mg/kg		5	n. d.
Dibromobiphenyl	mg/kg	With reference to 83/264/EEC	5	n. d.
Tribromobiphenyl	mg/kg		5	n. d.
Tetrabromobiphenyl	mg/kg		5	n. d.
Pentabromobiphenyl	mg/kg	and 2003/11/EEC. Analysis was performed by	5	n. d.
Hexabromobiphenyl	mg/kg	GC/MS.	5	n. d.
Heptabromobiphenyl	mg/kg		5	n. d.
Octabromobiphenyl	mg/kg	]	5	n. d.
Decabromobiphenyl	mg/kg		5	n. d.
Polybrominated Diphenyl Ethers (PBDEs)	-	-	-	-
Bromodiphenyl ether	mg/kg		5	n. d.
Dibromodiphenyl ether	mg/kg		5	n. d.
Tribromodiphenyl ether	mg/kg		5	n. d.
Tetrabromodiphenyl ether	mg/kg	With reference to 83/264/EEC	5	n. d.
Pentabromodiphenyl ether	mg/kg	and 2003/11/EEC.	5	n. d.
Hexabromodiphenyl ether	mg/kg	Analysis was performed by GC/MS.	5	n. d.
Heptabromodiphenyl ether	mg/kg		5	n. d.
Octabromodiphenyl ether	mg/kg		5	n. d.
Nonabromodiphenyl ether	mg/kg		5	n. d.
Decabromodiphenyl ether	mg/kg		5	n. d.

(2) D. $L = Detection Limit$		
************	End	***********

### MATERIAL SAFETY DATA SHEET

### IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME

TRIBIT 1550GN30 ALL COLOR

SUPPLIER

Sam Yang Co., Ltd.

263 Yeonji-Dong, Chongro-Gu, Seoul, Korea.

# 2. COMPOSITION/INFORMATION ON INGREDIENTS GENERAL DESCRIPTION OF CHEMICAL CHARACTER

Polybuthylene Terephthalate containing glassfiber and flame retardant.

### HAZARDOUS INGREDIENTS

Not applicable

Do not have heavy metals, especially Pb,cd,Hg,Cr6+.

## CAS NO HAZARD RISK PHRASES SYMBOL

Polybuthylene Terephthalate: 26062-94-2

Flame retardant: 68928-70-1, 1309-64-4

Glass fiber: 65997-17-3

## 3. HAZARDOUS IDENTIFICATION

Hazard warning not required

## 4 FIRST AID MEASURES

EYES

Flush eyes with plenty of water and seek medical device

SKIN

Wash off in flowing water

INGESTION Immediately seek medical device

### FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA** 

Water spray, extinguishing powder, CO2, foam, dry powder.

UNUSUAL FIRE AND EXPLOSION HAZARD

No unusual fire and explosion hazardous.

PROTECTIVE EQUIPMENT

Pressure demand self-contained breathing apparatus in without sufficient oxygen

### PRODUCT NAME: TRIBIT 1550GN30 ALL COLOR

### ACCIDENTAL RELEASE MEASURES

- Non hazardous solid in pellet form which can be easily controlled in case of a spill
- Disposal must in accordance with applicable federal, state or local regulations.

### HANDLING AND STORAGE

HANDLING

Ensure adequate ventilation or exhaust ventilation in the working area. Protective eyewear, gloves and so on should be worn not to get a burn STORAGE Idem

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No special measures required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Forms Solid (cylindrcal pellet)

Color ALL

Odour practically odorless

PH Not applicable
Boiling point (deg) Not applicable

Melting point (deg) 224

Flammability V-0 (UL94)
Solubility in water insoluble
Specific gravity 1.51

'iscosity Not applicable

**Bulk density** 

Decomposition temperature

### 10. STABILITY AND REACTIVITY

STABILITY Stable

INCOMPATIBILITY, HAZARDOUS DECOMPOSITION PRODUCTS

Caused by smouldering and incomplete combustion toxic fumes mainly consisting of Co, CO<sub>2</sub> may be developed. formation of traces of aliphatic THF, 1,3-Butadiene,

Toluene, Benzoic acid, terephthalic acid may occur.

PRODUCT NAME:	TRIBIT	1550GN30	ALL	COLOR
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### 11. TOXICOLOGICAL INFORMATION

Under recommened processing conditions small amounts of water, CO2, THF may be emitted.

### 12. ECOLOGICAL INFORMATION

Water pollution not generally hazardous to water.

### 13. DISPOSAL CONSIDERATION

May be disposed of together with household refuse if local official regulations are observed. May be incinerated if local regulations are observed.

# 14. TRANSPORT INFORMATION

Not dangerous cargo, keep dry.

# 15. REGULATORY INFORMATION

No labelling is required.

### 16. OTHER INFORMATION

This material safety data sheet includes TRIBIT 1550GN30 ALL COLOR.

The product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.



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**Test Report** 

No. F690101/LF-CTS005395

Date: January 6, 2004

Page 1 of 2

POONGSAN CORPORATION 611, Daejung-ri, Onsan-up, Ulju-kun, Ulsan, Korea

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

Type of Product

C2680

SGS File No.

B-49/2003-1263/1

Country of Origin

Korea

Sample receiving date

Dec. 29, 2003

Test performing date

Dec. 30, 2003

Test Performed

SGS Korea tested the sample which was selected by applicant with

following result.

Test results

For further details, please refer to following page.

SGS Testing Korea Co., Ltd.

CWP/mss

Thomas Hwang / Lab. Manager



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**Test Report** 

No. F690101/LF-CTS005395

Date: January 6, 2004

Page 2 of 2

### **Heavy Metal**

Items	Unit	Test Method	Detection Limit	Results	Specified Max. Limit	Conclusion
Soluble Lead (Pb)	mg/kg	EN 71 Part 3	3.5	n. d.	90	Pass
Soluble Antimony (Sb)	mg/kg	EN 71 Part 3	4	n. d.	60	Pass
Soluble Arsenic (As)	mg/kg	EN 71 Part 3	2	n. d.	25	Pass
Soluble Barium (Ba)	mg/kg	EN 71 Part 3	0.35	n. d.	1000	Pass
Soluble Cadmium (Cd)	mg/kg	EN 71 Part 3	0.35	n. d.	75	Pass
Soluble Chromium (Cr)	mg/kg	EN 71 Part 3	0.7	n. d.	60	Pass
Soluble Mercury (Hg)	mg/kg	EN 71 Part 3	2.5	n. d.	60	Pass
Soluble Selenium (Se)	mg/kg	EN 71 Part 3	8	n. d.	500	Pass

Test Item	Unit	Test Method	Detection Limit	Result
Cadmium (Cd)	mg/kg	ISO 5960, ICP-AES	0.5	1.7
Lead (Pb)	mg/kg	ISO 4749, ICP-AES	5	47
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	0.5	n. d.
Hexavalent Chromium (Cr VI)	μg/cm²	ISO 3613	0.02	n. d.

******	*********	End	***********
Note	n. d. = Not detected		

### POONGSAN CORPORATION

ONSAN PLANT

### 물질안전보건자료

( Material Safety Data Sheet)

물질명 : Brass

Cas No :

Page 1/2

### 1. 제품 및 제조회사 정보

(D) 물질명 : 활동 (Brass) ② 용도 : 전기부품 외

③ 유해성본류 (노룡부고시기준) : 자료없음

④ 화하적 일반 특성 : 고체

⑤ 제조차 주소 / 정보 : (주)봉산 운산공장

주소 : 물산광역시 울주군 온산을 대접리 611번지

(B) 공급자 주소 / 정보 : (주)풍산

주소 : 서울특별시 중구 총무로 3가 60-1

### 2. 구성성분 명칭 및 조성

함유량(%) CAS No 01 8 명칭 64.0 -- 71.5% 7440 - 50 - 8 (T) Copper Cu 7440 - 66 - 6 LIDIX (2) Zinc Zn

#### 3. 위험유해성

① 유해석분류

CEROLA 지수 : 보건=(0) 화채=(3) 폭발=(1)

② 급성영향 : 균속열, 설사, 복통, 현기종, 신경순상, 쇼크, 구토중상, 피부염을 유발할 수 있음

③ 만성영향 : 급성영향과 동일하며 말모, 두종, 폐질환을 병행할 수 있음

④ 인체침입경로 : 호흡기, 소화기

### 4. 응급조치요령

① 피부 : 오염된 의복과 신을 벗긴 후 다랗의 불로 씻을 것

② 눈 : 다장의 물로 씻을 것

③ 흡입 : 신선한 공기가 있는 곳으로 옮긴 후 필요에 따라 인공호흡을 시킬 것 ④ 섭취 : 구토를 하면 흡입을 위해 기도를 확보하고 식명수로 위세척을 할 것

⑤ 의사정보 : 즉시 의학적인 조치를 받을 것

### 5. 화재 및 폭발시 대처방법

(1) 인화점/밝화점 : 자료없음

② 폭발 : 용용된 상태의 경우 불과 격렬히 반응할 수 있음.

③ 소화제 종류 : 분맕소화제, 소다 회, 석회 또는 모래를 사용할 것

④ 진화방법 : 타는 묶짚에 물을 뿌리지 말고 모래등을 사용할 것

(5) 유해연소생성들 : 자료없음

### 6. 누출사고시 대처방법

① 개인 보호 조치 : 유출된 물질을 만지지 말고 감독자의 지시를 따돌 것 ② 환경 보호 조치 : 누출된 물질을 회수하여 분리수거 후 재활용할 것

③ 사고 후 조치 : 전문가의 지시에 따라 조치할 것

③ 소방법 : 해당없음

### 물질안전보건자료 (Material Safety Data Sheet) POONGSAN CORPORATION ONSAN PLANT 물질명 : Brass Page 2/2 Cas No : 7. 노출 방지 및 개인 보호구 ① 허용농도 TWA : 10mg / m (총분진으로 OSHA 기준) ② 공화적인 조치 : 방폭구조로 된 국소 배기장치 및 전체 환기장치를 설시할 것 ③ 개인보호구 : 보안경, 보호의, 보호장갑, 방진마스크, 기타 8. 취급 및 저장방법 ① 취급시 주의사항 : 산, 할로겐 항학물, 탄화수소와 격리할 것 용용맥에 좋유입시 폭발가능성 있음 동분취급 작업시 방진 마스크, 보안경, 보호의 착용 ② 저장사 주의사항 : 수분방지 대책이 된 건조하고 환기가 잘되는 곳에 보관할 것 9. 안전성 및 반응성 ① 안정성 : 상은·삼암에서 안정함 ② 반응성 : 신 또는 물과 반응하여 인화성이 강한 수소를 발생함 ③ 피해야 할 조건 : 화합묾질과의 혼합(힘넘)서에는 전문가의 지시를 따를 것 ④ 피해야 할 물질 : 화화반당시 급격한 분해 또는 폭발가능성 있음 10, 물리 화하적 특성 ② 냄새 : 무취 (D) 외관: 교체 ④ 용해도 : 적용안됨 (3) PH : 적용만됨 (6) 용절: 905℃ ⑤ 비점 : 자료없음 (1) 산화성 : 지료없음 (7) 폭발성 : 자료없음 @ 증기압 : 적용안됨 ③ 비중: 8.47 11, 구성성분 명칭 및 조성 (f) L050 : 자료없음 (P) LC50: 자료없음 ③ 발임성 : 없음 12. 관련법규에 관한 정보 (i) 산업한전 보건법 : MSDS 작성대상 물질 ② 환경관리법 : 해당없용



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**Test Report** 

No. F690101/LF-CTS005397

Date: January 6, 2004

Page 1 of 2

POONGSAN CORPORATION 611, Daejung-ri, Onsan-up, Ulju-kun, Ulsan, Korea

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

Type of Product

C5210

SGS File No.

B-49/2003-1263/3

Country of Origin

Korea

Sample receiving date

Dec. 29, 2003

Test performing date

Dec. 30, 2003

Test Performed

SGS Korea tested the sample which was selected by applicant with

following result.

Test results

For further details, please refer to following page.

SGS Testing Korea Co., Ltd.

CWP/mss

Thomas Hwang / Lab. Manager



#1002-2, Hwasan-ri, Onsan-ub, Ulju-gun, Ulsan, Korea 689-890 Tel: 052)239-6908~10, Fax: 052)239-6913, InterNet>http://www.sgsgroup.co.kr

**Test Report** 

No. F690101/LF-CTS005397

Date: January 6, 2004

Page 2 of 2

### **Heavy Metal**

Note

n. d. = Not detected

Items	Unit	Test Method	Detection Limit	Results	Specified Max. Limit	Conclusion
Soluble Lead (Pb)	mg/kg	EN 71 Part 3	3.5	n. d.	90	Pass
Soluble Antimony (Sb)	mg/kg	EN 71 Part 3	4	n. d.	60	Pass
Soluble Arsenic (As)	mg/kg	EN 71 Part 3	2	n. d.	25	Pass
Soluble Barium (Ba)	mg/kg	EN 71 Part 3	0.35	n. d.	1000	Pass
Soluble Cadmium (Cd)	mg/kg	EN 71 Part 3	0.35	n. d.	75	Pass
Soluble Chromium (Cr)	mg/kg	EN 71 Part 3	0.7	n. d.	60	Pass
Soluble Mercury (Hg)	mg/kg	EN 71 Part 3	2.5	n, d.	60	Pass
Soluble Selenium (Se)	mg/kg	EN 71 Part 3	is <b>,8</b> 4%	n. d.	500	Pass

Test Item	Unit	Test Method	Detection Limit	Result
Cadmium (Cd)	mg/kg	ISO 5960, ICP-AES	0.5	n. d.
Lead (Pb)	mg/kg	ISO 4749, ICP-AES	5	38
Mercury (Hg)	mg/kg	USEPA 3052, ICP-AES	0.5	n. d.
Hexavalent Chromium (Cr VI)	μg/cm²	ISO 3613	0.02	n. d.

물질안전보건자료

POONGSAN CORPORATION

ONSAN PLANT

( Material Safety Data Sheet)

릁질명 : Phosphorus Bronze

Page 1/2

Cas No :

1. 제품 및 제조회사 정보

(1) 물질명 : 인청동 (Phosphorus Brottze)

② 음도 : 전기부품 및

③ 유해성분류 (노동부고서기준): 자료없음

④ 화화적 일반 특성 : 교체

⑤ 제조지 주소 / 정보 : (주) 풍산 온산공장

주소 : 울산광역시 용주군 용산읍 대정리 611번지

(B) 광급자 주소 / 정보 : (주) 품산

주소 : 서울특별시 중구 충무로 3가 60-1

2. 구성성분 명칭 및 조성

이명 CAS No 함유량(%) ① Copper Cu 7440 - 50 - 8 나머지 7440 - 31 - 5 3.5--9.0% (2) Tin Sn (3) Phosphorus P 7723 - 31 - 5 0.03--0,35%

3. 위험유해성

(1) 유해성분류

CERCLA 지수 : 보건=(0) 화재=(3) 폭발=(1)

(2) 급성영향 : 금속엷, 설사, 복통, 현기점, 신경손상, 쇼크, 구로증상, 피부엄을 유발할 수 있음

③ 만성영향 : 급성영향과 동일하며 탈모, 두통, 폐질환을 병행할 수 있음

④ 인체침입경로 : 호흡기, 소화기

4. 용급조치요령

① 피뷰 : 오염된 외복과 신을 벗긴 후 다량의 물로 씻을 것

② 눈 : 다랑의 불로 씻을 것

③ 흡입 : 신선한 공기가 있는 곳으로 옮긴 후 필요에 따라 인공호흡을 시킬 것 ④ 성취 : 구토를 하면 흡입을 위해 기도를 휘보하고 식염수로 위세책을 할 것

⑤ 의사점보 : 즉시 의학적인 조치를 받을 것

5. 화재 및 폭발시 대처방법

① 인회점/발화점: 자료없용

② 폭발 : 용용된 상태의 경우 물과 격렬히 반응할 수 있용.

③ 소회제 종류 : 분앞소화제, 소다 회, 석회 또는 모래를 사용할 것 ④ 진화방법 : 타는 물질에 물을 뿌리지 말고 모래동을 사용할 것

⑤ 유해연소생성물 : 자료없음

6. 누출사고시 대처방법

① 개인 보호 조치 : 유출된 품질을 만지지 말고 감독자의 지시를 따를 것 ② 흰경 보호 조치 : 누출된 물질을 회수하여 분리수거 후 재활용할 것

③ 사고 후 조치 : 전문가의 지시에 따라 조치할 것

### POONGSAN CORPORATION

ONSAN PLANT

#### 물질인전보건자료

( Material Safety Data Sheet)

몰질명: Phosphorus Bronze

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### 7. 노출 방지 및 개인 보호구

① 허용농도

TWA: 10mg / ㎡ (총분진으로 OSHA 기준)

② 공학적인 조치 : 방품구조로 된 국소 배기장치 및 전체 환기잠치를 설치할 것

③ 개인보호구 : 보안경, 보호의, 보호침감, 방진마스크, 기타

### 8. 취급 및 저장방법

① 취급시 주의사항 : 산, 할로겐 화합을, 탄화수소와 격리할 것

용용액에 모유입시 폭발가능성 있음

통분취급 직업시 범진 미스크, 보안경, 보호의 착용

② 저장시 주의사항 : 수분방지 대책이 된 건조하고 환기가 잘되는 곳에 보관할 것

#### 9. 안전성 및 반응성

① 안정성 : 상은·상암에서 안정함

② 반응성 : 산 또는 불과 반용하여 인화성이 강한 수소를 발생함

③ 피해야 함 조건 : 화합물질과의 혼합(합성)시에는 전문가의 지시를 띠를 것

④ 피해야 할 물질 : 화화반응시 급격한 분해 또는 폭발가능성 있음

### 10, 물리 화학적 특성

(1) 외관 : 고체

③ PH : 적용안됨

⑤ 비점 : 자료없음

(7) 폭발성 : 자료없음

图 出套: 8.80

(ž) 냄새 : 무취

(ā) 용해도 : 적용안됨

① 용정 : 8800

(8) 산화성 : 자료없음

100 증기압 : 처음안됨

#### 11. 구성성분 명칭 및 조성

① LD50: 자료없음

(2) LC50: 从建ህ음

(3) 발암성 : 없윱

### 12. 관련법규에 관한 정보

① 신입안전 보건법 : MSDS 작성대상 물질

② 환경관리법 : 해당없음

③ 소방법 : 해당없음