

Product name: **POLYLAC ® ABS**

Version 1

Revision Date: June 1,2015
Print Date: November 30, 2015

Section 1. Identification of the substance/ mixture and of the company/ undertaking

1.1 Product identifier

Product name: **POLYLAC ®**

This safety data sheet pertains to the following products:

PA-707, PA-709, PA-709A, PA-709N, PA-709P, PA-709S, PA-709K, PA-709H, PA-716, PA-717C, PA-726, PA-726M, PA-727, PA-737, PA-746, PA-746H, PA-747, PA-747F, PA-747H, PA-747R, PA-747S, PA-749, PA-749S, PA-756, PA-756S, PA-756H, PA-757, PA-757N, PA-757H, PA-757F

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Mixture used for the production of molded plastic articles

1.3 Details of the supplier of the Safety Data Sheet

Supplier: Chi Mei Corporation
Address: 59-1, San Chia, Jen Te Village
Tainan County
Taiwan R.O.C.
Telephone: +886 6 2663000 Ext.1347
Email: service@mail.chimei.com.tw

1.4 Emergency telephone number

Emergency telephone : +886 6 2663000 Ext. 2501

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified as hazardous (polymeric state)

Classification according to Regulation (EC) N° 1272/2008 (CLP): Not classified as hazardous (polymeric state)

2.2 Label elements

Not labelled as hazardous

2.3 Other hazards

vPvB/PBT assessment: not available

Section 3. Composition/information on ingredients

3.1 Composition of the substance/ preparation

Substance or Preparation Substance
Content

CAS	Name	content
9003-56-9	Acrylonitrile-Butadiene-Styrene copolymer	> 98 %
-	Additives	≤ 2 %

Impurities Contributing to Hazard None

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3.2 Additional information:

Reach Info:

	Pre-registration No.	Registration No.
Acrylonitrile	05-2117149456-38-0000	01-2119474195-34-0045
Styrene	05-2117149462-45-0000	01-2119457861-32-0006 01-2119457861-32-0007 01-2119457861-32-0057 01-2119457861-32-0065 01-2119457861-32-0081
Buta-1,3-diene	05-2117149467-35-0000	01-2119471988-16-0044

3.3 For full text of R- and H-phrases: see section 16

Section 4. First-aid measures

4.1 Description of first aid measures

General notes: Remove affected persons from the danger area, at the same time ensuring your own safety. Remove all contaminated clothing immediately

Following inhalation: In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically

Following skin contact: In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice

Following eye contact: In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain.

In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary

Following ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary

Self-protection of the first aider: -

4.2 Most important symptoms & effects both acute & delayed

Dust: Skin irritation, eye irritations and redness

4.3 Indication of any immediate medical attention and special treatment needed: -

Treat symptomatically.

(Decontamination, vital functions)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Water, foam, dry chemical powder

For safety reasons unsuitable extinguishing agents: -

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5.2 Special hazards arising from the substance or mixture: -

5.3 Advice for firefighters

Protective equipment: Self-contained breathing apparatus

Further measures: -

5.4 Additional information: -

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment & emergency procedures

Pellets or powder remained on ground may cause slipping

Wear protective equipment

Ensure adequate ventilation

Keep away from ignition sources

Keep unprotected persons away

6.2 Environmental precautions

Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil

6.3 Methods and material for containment and cleaning up

Recovery if not contaminated or disposal

6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: -

Measures to prevent fire: Prevent from fire around handling area

Measures to prevent aerosol and dust generation: maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

Measures to protect the environment: -

Advice on general occupational hygiene: -

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

Requirements for storage rooms and vessels: -

Suitable materials and coating: -

Unsuitable materials or coatings: -

Further information on storage conditions: -

7.3 Specific end use(s)

Recommendations: -

Section 8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limits: None established

8.2 Exposure control

Appropriate engineering controls: Install eyes washer and shower in the place of operation. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits

Personal protection:

- Respiratory protection: Wear masks for cleaning molding machines
- Hand protection: Heat-insulating gloves when handling molten form
- Eye protection: Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines
- Skin and body protection: Gloves necessary for handling melted resin
- Hygiene measures: Wash hands after handling

8.3 Environmental exposure controls

Product related measures to prevent exposure: None specific

Instruction measures to prevent exposure: None specific

Organizational measures to prevent exposure: None specific

Technical measures to prevent exposure: None specific

Environmental exposure controls: Do not allow product to reach sewage system or water bodies

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Physical state: solid, granulate
Odour	Odourless or negligible
Colour	Natural or off-white
Odour threshold	None
pH	Not applicable
Melting point / freezing point	not determined
Initial boiling point and boiling range	Not applicable
Flash point	404 °C
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	45 g/m³ (open cup, powder)
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density (H ₂ O=1)	1.03 - 1.10 g/cm³
Bulk density	Not available
Solubility(ies)	Not soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	466 °C
Decomposition temperature	> 300 °C
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2 Other safety information: -

Section 10. Stability and reactivity

10.1 Reactivity: Non-reactive under normal handling and storage conditions

10.2 Chemical stability: Stable under normal handling and storage conditions

10.3 Possible hazardous reaction: -

10.4 Conditions to avoid: Avoid excessive heat, flames and all sources of ignition

10.5 Incompatible materials: not applicable

10.6 Hazardous decomposition products: not applicable

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Section 11. Toxicological information

11.1 Information on toxicological effects

Toxicological effects:

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data. May cause irritations.
- Eye damage/irritation: Lack of data. May cause irritations.
- Sensitisation to the respiratory tract: Lack of data. Not to be expected
- Skin sensitisation: Lack of data. Not to be expected
- Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected
- Carcinogenicity: Lack of data. Not to be expected
- Reproductive toxicity: Lack of data. Not to be expected
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Dusts: Irritating to eyes, respiratory system and skin.
- Specific target organ toxicity (repeated exposure): Lack of data.

Other information

Styrene:

- Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.
- lung damages
- May be fatal if swallowed and enters airways.
- Causes serious eye irritation. Causes skin irritation.

Acrylonitrile:

- Toxic by inhalation, in contact with skin and if swallowed.
- May cause cancer. Suspected of damaging the unborn child.
- Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

1,3-Butadiene:

- May cause cancer. May cause genetic defects.

Symptoms

- Dust: Can cause skin, eye and respiratory tract irritation.
- The melted product can cause severe burns.
- Thermal treatment, Processing:
- Irritating to eyes, respiratory system and skin.
- In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

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Section 12. Ecological information

12.1 Toxicity

Method	Results	Reference
Short-term aquatic toxicity		
Based on available data on the constituents the classification criteria are not met		
LC(50) _{mixture} = 5.78 mg/l (additivity and summation method, toxicity information available for 92,5 % of the mixture)		
Long-term aquatic toxicity		
Based on available data on the constituents the classification criteria are met and the mixture is therefore classified as Aquatic Chronic 1		
NOEC _{mixture} = 0.0079 mg/l (additivity and summation method, toxicity information available for 78 % of the mixture)		

12.2 Persistence and degradability

Further details:

- Biodegradation: Product is not readily biodegradable.
- The product is likely to persist in the environment.

Effects in sewage plants:

- In sewage treatment plants it may be separated mechanically.

12.3 Bioaccumulative potential

To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.

12.4 Mobility in soil

no data available

12.5 Results PBT & vPvB assessment

According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such

12.5 Other adverse effects:

General information: Do not allow to enter into ground-water, surface water or drains.

12.7 Additional information: -

Section 13. Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal: Dispose in accordance with the current local regulations.

Waste codes according to European Waste Catalogue: -

Waste treatment-relevant information: Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM

Sewage disposal-relevant information: -

Other disposal recommendations: -

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Section 14. Transport information

ADR/RID

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

Special Provisions: no data available

Hazard identification No: no data available

ADNR / ADN

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

no data available

IMDG

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

EMS Number: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

ICAO/IATA

14.1 UN number

Not applicable

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14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

no data available

Section 15. Regulatory information

15.1 Safety, health and environmental regulations /legislation specific for the substance or mixture

Authorization and / or restrictions on use: None

Other EU regulations: The following substances are under European Seveso regulation:

Substance	Seveso category	Other Seveso categories	Seveso concentrations	Categories
Acrylonitrile	2	9ii 7b	10 % ≤ C < 20 %	2
Buta-1,3-diene	0	8	-	-
Styrene	6	-	C ≥ 12,5 %	-

Other national regulations: -

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not yet required.

Section 16. Other information

16.1 Indication of changes

Version 1: First issue according to Regulations (EC) 1907/2006 (REACH) & 1272/2008 (CLP)

16.2 Abbreviations and acronyms

AGS	Ausschuss für Gefahrstoffe	LoW	List of Waste
AF	Assessment Factor	MARPOL	MARine POLLution
BCF	BioConcentration Factor	MIE	Minimum Ignition Energy
CAS	Chemical Abstract Service	N°EC	European Commission number
CMR	Carcinogenic, Mutagenic and Reprotoxic	NFPA	National Fire Protection Association
CSR	Chemical Safety Report	NIOSH	National Institute of Occupational Safety and Health
DFG	German Research Foundation	NOEC	No Observed Effect Concentration
DNEL	Derived No Effect Level	NOELR	No Observed Effect Loading Rate
EC	European Commission	OECD	Organisation for Economic Co-operation and Development
EC50	Effective Concentration (required to induce a 50% effect)	OEL	Occupational Exposure Limit
EEC	European Economic Community	OSHA	Occupational Safety and Health Administration
EWC	European Waste Catalogue Code	PBT	Persistent Bioaccumulable Toxique
IDLH	Immediately Dangerous to Life or Health	PNEC	Previsible Non Effect Concentration
IBC	International Bulk Chemical	QSAR	Quantitative Structure-Activity Relationship

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Koc	Soil/Water Partition Coefficient	STOT	Specific Target Organ Toxicity
Kow	Octanol/Water Partition Coefficient	TCLo	Toxic Concentration Low
LC50	Lethal Concentration 50	TDLo	Toxic Dose Low
LD50	Lethal Dose 50	UN	United Nations
LEL	Lower Explosive Limit	UVCB	Unknown or Variable Composition Complex Reaction Products, or Biological Materials
LL100	Lethal Loading	vPvB	very Persistent, very Bioaccumulative
LOEC	Lowest Observed Effect Concentration		

16.3 Key literature references and sources for data

<http://esis.jrc.ec.europa.eu/>
<http://echa.europa.eu/>
<http://gestis-en.itrust.de>

16.4 Relevant R-phrases and/or H-statements (number and full text):

H220	Extremely flammable gas	R10	Flammable
H225	Highly flammable liquid and vapour	R11	Highly flammable
H226	Flammable liquid and vapour	R12	Extremely flammable
H301	Toxic if swallowed	R20	Harmful by inhalation
H311	Toxic in contact with skin	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
H315	Causes skin irritation	R36	Irritating to eyes
H317	May cause an allergic skin reaction	R37	Irritating to respiratory system
H318	Causes serious eye damage	R38	Irritating to skin
H319	Causes serious eye irritation	R40	Limited evidence of a carcinogenic effect
H331	Toxic if inhaled	R41	Risk of serious damage to eyes
H332	Harmful if inhaled	R43	May cause sensitisation by skin contact
H335	May cause respiratory irritation	R45	May cause cancer
H340	May cause genetic defects	R46	May cause inheritable genetic damage
H350	May cause cancer	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H351	Suspected of causing cancer	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H400	Very toxic to aquatic life		
H411	Toxic to aquatic life with long lasting effects		

16.5 Training advice: -

16.6 Further information: According to the guidance version 2.0 for monomers and polymers from the European Chemicals Agency dated as of April 2012, the classification of the polymer takes into account the classification of all its constituents, such as unreacted monomers. These constituents in fact should be taken into account for classification of the polymer. This means that the same classification methods as for mixture should be applied to polymer substances.

In order to determine a classification for the studies about the water soluble fraction as well as the absorption should be performed on the polymer as such.

To the best of our knowledge and belief, the information contained herein is accurate and obtained from sources believed to be reliable. No representation is made that the information is complete or the material is suitable for all purposes. The final determination as to the suitability of the user's intended use of the material is the sole responsibility of the user. All materials may present unknown hazards even when used in common applications and accordingly, it is the sole responsibility of the user to understand and address all potential hazards, including those identified herein. The information set forth in Sections 11 and 12 reflects data available as of the date hereof. It is anticipated that such data will be updated.



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Applicant : FoShan FengLisheng Plastic Products Co., Ltd
单位名称: 佛山市丰利盛塑料制品有限公司
Address: Room 302, Block 1, Guifeng Industrial Park No.8 Guifeng Rd, Bianjiao, Ronggui Town,
Shunde District, Foshan City, Guangdong, China
地址: 广东省佛山市顺德区容桂镇扁滘桂丰路 8 号桂丰工业园 1 栋 302

The following sample(s) and sample information was/were submitted and identified by client as:

以下检测样品及样品信息是由客户所提供及确认:

Sample Name: PE Physical Foming Gasket
样品名称: PE 物理发泡垫片
Receiving Date: 21-Mar-2022
接收样品日期: 2022 年 3 月 21 日
Test Period: From 21-Mar-2022 to 25-Mar-2022
检测日期: 2022 年 3 月 21 日至 2022 年 3 月 25 日

Add Information:

附加信息:

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

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Test Summary 报告结论:

#	Test Item(s) 检测项目	Reference Standard/Method 参考标准/方法	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP 铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr(VI))、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基)己酯(DEHP)、邻苯二甲酸二异丁酯(DIBP)含量 EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS) 欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863 (RoHS)	IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-8:2017	PASS 合格

Result 结果:

1.1 Lead Content (Pb), Cadmium Content (Cd) and Mercury Content (Hg)

铅含量(Pb)、镉含量(Cd)、汞含量(Hg)

IEC 62321-4:2013+A1:2017 & IEC62321-5:2013, acid digested and determined by ICP-OES

IEC62321-4:2013+A1:2017 & IEC62321-5:2013, 酸消解, ICP-OES 检测

Compound 化合物		Material 材料	Limit 限值 (mg/kg)	RL 报告限 (mg/kg)
		1		
1	Lead 铅(Pb)	N.D.	1000	10
2	Cadmium 镉(Cd)	N.D.	100	10
3	Mercury 汞(Hg)	N.D.	1000	10
Conclusion 结论		PASS 合格	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(a) mg/kg: mg/kg: 毫克/千克
(b) RL: 报告限制
(c) N.D.: 未检测到 (结果小于 RL)

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1.2 Hexavalent Chromium (Cr(VI))

六价铬含量 (Cr(VI))

Non-metal: IEC 62321-7-2:2017, alkaline digested and analyzed by UV-Vis

非金属: IEC 62321-7-2:2017, 碱消解, UV-Vis 检测

Compound 化合物		Material 材料	Limit 限值 (mg/kg)	MDL 方法检出限 (mg/kg)
		1		
1	Hexavalent Chromium 六价铬(Cr(VI))	N.D.	1000	10
Conclusion 结论		PASS 合格	-	-

Remark(s) (a) ug/cm²: microgram per square centimeter

(b) RL: Report Limit

(c) Negative = Sample Cr(VI) concentration is less than 0.10 ug/cm²

Positive = Sample Cr(VI) concentration is greater than 0.13 ug/cm²

(d) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

(a) ug/cm²: 微克每平方米

(b) RL: 报告限制

(c) 阴性 = 样品六价铬 Cr(VI) 含量小于 0.10 ug/cm²

阳性 = 样品六价铬 Cr(VI) 含量大于 0.13 ug/cm²

(d) # = 阳性表明在测试表面出现 Cr(VI), 测试结果被视为与指令的要求不符

阴性表明在测试表面未出现 Cr(VI), 测试结果被视为与指令的要求相符

1.3 Polybrominated Biphenyls and Polybrominated Diphenyl Ethers (PBBs and PBDEs)

多溴联苯(PBBs)和多溴二苯醚 (PBDEs) 含量

IEC 62321-6:2015, solvent extract and determined by GC/MS

IEC 62321-6:2015, 溶剂萃取, GC/MS 检测

Compound 化合物		Material 材料	Limit 限值 (mg/kg)	RL 报告限 (mg/kg)
		1		
1	Monobromo biphenyl 一溴联苯	N.D.	-	50
2	Dibromo biphenyl 二溴联苯	N.D.	-	50
3	Tribromo biphenyl 三溴联苯	N.D.	-	50
4	Tetrabromo biphenyl 四溴联苯	N.D.	-	50
5	Pentabromo biphenyl 五溴联苯	N.D.	-	50
6	Hexabromo biphenyl 六溴联苯	N.D.	-	50
7	Heptabromo biphenyl 七溴联苯	N.D.	-	50
8	Octabromo biphenyl 八溴联苯	N.D.	-	50

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9	Nonabromo biphenyl 九溴联苯	N.D.	-	50
10	Decabromo biphenyl 十溴联苯	N.D.	-	50
11	Monobromo diphenyl ether 一溴二苯醚	N.D.	-	50
12	Dibromo diphenyl ether 二溴二苯醚	N.D.	-	50
13	Tribromo diphenyl ether 三溴二苯醚	N.D.	-	50
14	Tetrabromo diphenyl ether 四溴二苯醚	N.D.	-	50
15	Pentabromo diphenyl ether 五溴二苯醚	N.D.	-	50
16	Hexabromo diphenyl ether 六溴二苯醚	N.D.	-	50
17	Heptabromo diphenyl ether 七溴二苯醚	N.D.	-	50
18	Octabromo diphenyl ether 八溴二苯醚	N.D.	-	50
19	Nonabromo diphenyl ether 九溴二苯醚	N.D.	-	50
20	Decabromo diphenyl ether 十溴二苯醚	N.D.	-	50
21	Sum of PBBs 多溴联苯总含量	N.D.	1000	-
22	Sum of PBDEs 多溴二苯醚总含量	N.D.	1000	-
	Conclusion 结论	PASS 合格	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(a) mg/kg: mg/kg: 毫克/千克
(b) RL: 报告限制
(c) N.D.: 未检测到 (结果小于 RL)

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Guangzhou Depuhua Test Services Co. Ltd.

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1.4 Phthalates – (DBP, BBP, DEHP, DIBP)

邻苯二甲酸酯含量

IEC 62321-8:2017, Solvent extract and determined by GC/MS

IEC 62321-8:2017, 溶剂萃取, GC-MS 检测

Compound 化合物			Material 材料	Limit 限值 (%)	RL 报告限 (%)
			1		
1	DBP	Dibutylphthalate 邻苯二甲酸二丁酯 CAS# 84-74-2	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate 邻苯二甲酸丁苄酯 CAS# 85-68-7	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate 邻苯二甲酸二(2-乙基)己酯 CAS# 117-81-7	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate 邻苯二甲酸二异丁酯 CAS# 84-69-5	N.D.	0.1	0.005
Conclusion 结论			PASS 合格	-	-

Remark(s): (a) RL: Report limit

备注: (b) N.D.: Not detected (result is less than RL)

(a) RL: 报告限制

(b) N.D.: 未检测到 (结果小于 RL)

Material List: 材料清单:

Material # 材料#	Position / Sample Description 部位/样品描述
1	White plastic, plate 白色塑胶, 板

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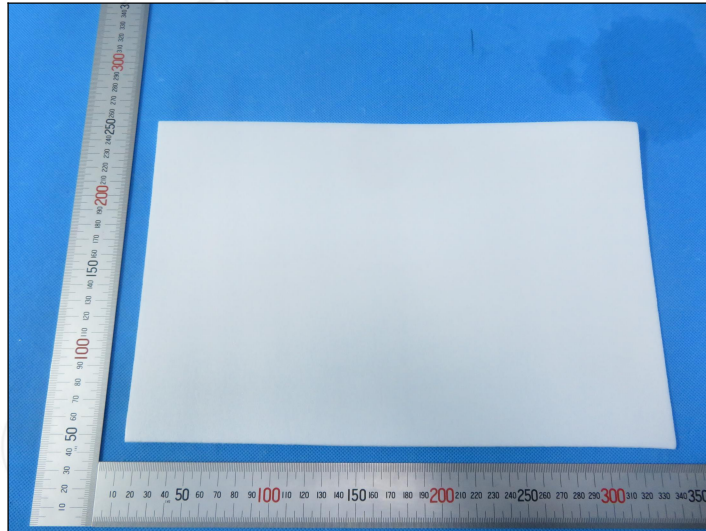
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Photo(s)照片:



Product Photo 样品图片

<<< <<< END OF REPORT 报告结束>>> >>>

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声明 Statement

1. 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。
The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which STS shall bear no responsibilities.
2. 本检测报告以实测值进行符合性判定，未考虑不确定度所带来的风险，特别约定、标准或规范中有明确规定的除外。此种判定方式所带来的风险由客户自行承担，本实验室不承担相关责任。
The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by the judgment method, and STS shall not bear related responsibilities.
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For other statements, please refer to the footer of the report.

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签发测试报告条款

Conditions of Issuance of Test Reports

1. 广州市德普华检测技术有限公司(以下简称[公司])为提供符合下述条款的测试和报告,而接受有关样品和货品。本公司基于下述条款提供服务,下述条款为本公司与申请服务的个人、企业或公司(以下简称[客户])的协议。
All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。
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3. 除非相关部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。
The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。
Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. 如因使用本公司中心任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
10. 报告的签发记录可通过登录 www.stsgz.com 查询。如需进一步查询报告有效性或核实报告,需与本公司联系。
Issuance records of the Report are available on the internet at www.stsgz.com. Further enquiry of validity or verification of the Report should be addressed to the company.

TECHNICAL INFORMATION SHEET

COMPANY: HANGZHOU RAINBOW PACKAGING CO.,LTD

DATE: 2024-02-25

Product Description	Glass Jar and bottle
Product Reference No.	(product code)
Features	• non-toxic, • Flame Retardant • Good Stiffness • Good Strength • Halogen Free • High Impact Resistance • It is suitable for cosmetic packaging
Uses	• Consumer Applications • Electrical/ Electronic applications • Cosmetic applications • General Purpose • Industrial Applications

COMPOSITION/ INFORMATION ON INGREDIENTS:

Trade name	% in product	Chemical names/INCI name	CAS	% active in raw material
SiO2	72±4%		9003-07-0	72%
Al2O3	2±2%			2%
CaO	9±3%			9%
MgO	2±2%			2.5%
K2O+Na2O	14±3%			14.8%
Fe2O3	0.3±0.25%			0.4%

TECHNICAL PROPERTIES:

Index	Value
Appearance	Amber
The relative density (water=1 kg/dm3)	0.89~0.91 k g/dm3
Melting point(℃)	150~170
Decomposition temperature (℃)	350
Heat distortion temperature (℃)	100
Vicat softening temperature	150
MFR	1~40
Contractibility rate	1.8~2.5%

Material Safety Data Sheet (MSDS)

According to: ST/SG/AC.10/30/Rev.7(GHS)

Section 1 - Identification of the substance/preparation and of the company/undertaking Product Identifier

Product Specification

Product name : AMBER GLASS JAR AND CLEAR GLASS JAR
Model : 15G 30G 50G AND 5G
Item No. : /
Trade Name : AMBER GLASS JAR AND CLEAR GLASS JAR
Sample Nature : /
Export to : EUROPE
Chemical Uses : /
Transport Fashion : AIR/ SEA/ RAIL
Packaging Information : /

Relevant identified uses of the substance or mixture and uses advised against Identified uses: /

Details of the supplier of the safety data sheet

Applicant : HANGZHOU RAINBOW PACKAGING CO.,LTD
Address : NO.242, HUANHU NORTH ROAD, QIANDAOHU TOWN, CHUN-AN,
HANGZHOU, ZHEJIANG, CHINA 311700
Contact Person : Kelly
Tel No. : 18868123925
Emergency Telephone No. : /
Email : ruibo@ruipack.com.cn



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High Technology Industrial Zone, Houjie, Dongguan, Guangdong, China 523945 Tel 4009008335

Annray Testing and Certification(Guangdong) Co., Ltd.

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to GHS

Label elements

Pictogram : No data available.
Signal word : No data available.
Hazard statement(s) : The broken glass fragment is sharp, to scratch or cut a person's skin.
Precautionary statement(s) : No data available.

Other hazards

Physical and chemical hazards : See Section 10.
Human health hazards : See Section 11.
Environmental hazards : See Section 12.

Section 3 - Composition/Information on Ingredient

Chemical composition

Component	CAS No.	EC No.	CONTENT (%)
Silicon dioxide (SiO ₂)	14808-60-7	/	72±4%
Aluminum oxide (Al ₂ O ₃)	1344-28-1	/	2±2%
Oxocalcium (CaO)	1305-78-8	/	9±3%
Magnesium oxide (MgO)	1309-48-4	/	2±2%
Dipotassium oxide (K ₂ O)+Sodium oxide (Na ₂ O)	K ₂ O: 12136-45-7 Na ₂ O: 1313-59-3	/	14±3%

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Section 4-First Aid Measures

Description of first aid measures

Eye Contact	:	Immediately flush eyes with plenty of water. Occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
Skin Contact	:	If cut the skin people should immediately flush skin with water and bind up. If irritation develops and persists, seek medical attention.
Ingestion	:	Insignificance.
Inhalation	:	Insignificance.
Personal protective equipment for first-aid responders	:	No further relevant information available.
Most important symptoms/effects, acute and delayed	:	No further relevant information available.
Indication of immediate medical attention and special treatment needed	:	Treat symptomatically.

Section 5 – Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media	:	The product is non-flammable.
Special hazards arising from the substance or mixture	:	No data available.
Advice for firefighters	:	No data available.

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Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

No special protection is required for normal use.

Environmental precautions

Keep spilled material out of sewers, ditches and bodies of water.

Methods and materials for containment and cleaning up

Sweep up and place in suitable containers for recycle or disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

Information on Safe Handling	: See Section 7.
Information on Personal Protection equipment.	: See Section 8.
Disposal Information	: See Section 13.

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Section 7 - Handling and Storage**Precautions for safe handling**

Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. To prevent dust storms, air transport pipes, bag filters and storage tanks need to install devices to eliminate static electricity and grounding, bag filters of the filter with conductive material. Avoid contact with eyes. Avoid breathing dust, vapor, mist, or gas. Do not eat, drink or smoke while handling the product. Keep away from sources of ignition.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated away from incompatible substances.

Keep away from sources of ignition. Do not store in direct sunlight. Temperatures in excess may cause resin degradation. Keep out of the reach of children.

Section 8 - Exposure Controls/Personal Protection**Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal Protective Equipment

Eyes Protection	: If this material is heated, wear chemical goggles or safety glasses and a face shield.
Skin Protection	: Use adequate hand protection during hot processing operations.
Body Protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respirators Protection	: No data available.
Other Protection	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands



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Section 9 - Physical and Chemical Properties

Physical State	: Transparent
Colour	: Transparent
Form	: Solid
Odour	: Odorless
pH	: No data available.
Melting point/freezing point	: No data available.
Boiling point or initial boiling point and boiling range	: No data available.
Flash point	: No data available.
Flammability (solid, gas)	: No data available.
Lower and upper explosion limit/flammability limit	: No data available.
Vapour pressure	: No data available.
Relative vapour density	: No data available.
Density/Relative density	: No data available.
Solubility	: No data available.
Partition coefficient	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Kinematic viscosity	: No data available.
Particle characteristics	: No data available.

Section 10 - Stability and Reactivity

Reactivity	: No data available.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous Polymerization Will not occur. Hazardous Reactions None under normal processing.
Conditions to avoid	: Incompatible materials. Ignition sources, excess heat.
Incompatible materials	: Strong oxidizing agents, strong acids, fluorine, chlorine, permanganates.
Hazardous decomposition products	: No data available.

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Section 11 - Toxicological Information

Information on toxicological effects

Acute Toxicity

Intraperitoneal, rat	: No data available.
Intravenous, rat	: No data available.
Oral, mouse	: No data available.
Oral, rat	: No data available.
Skin corrosion/irritation	: No data available.
Serious eye damage/eye irritation	: No data available.
Respiratory or skin sensitization	: No data available.
Germ cell mutagenicity	: No data available.

Carcinogenicity

Reproductive toxicity	: No data available.
Specific target organ toxicity - single exposure	: No data available.
Specific target organ toxicity - repeated exposure	: No data available.
Aspiration hazard	: No data available.

Potential Health Effects

Eye	: No special hazard risk under normal use. Dusts or particulates may cause mechanical irritation including pain, tearing, and redness. Vapours and fumes from burning material may cause irritation. Contact with the heated material may cause thermal burns.
Skin	: No special hazard risk under normal use. Dusts or particulates may cause mechanical irritation due to abrasion.
Ingestion	: Ingestion is an unlikely route of exposure; no hazard in normal industrial use. If ingested in sufficient quantity may cause injury such as gastrointestinal disturbances. May be a choking hazard.
Inhalation	: No data available.
Signs and Symptoms of Exposure	: No data available.

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Section 12 - Ecological Information

Toxicity	: No data available.
Persistence and degradability	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Results of PBT and vPvB assessment	: No data available.
Other adverse effects	: No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues / Unused Products	: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
Contaminated packaging	: Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

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Section 14 - Transport Information

Dangerous Goods No. : No details
Un number : No details
Package label : No details
Packing method : No details
Transport precautions : No details

Section 15 - Regulatory Information

Safety, health and environmental regulations specific for the product in question

Regulatory information : Reference to the local, national, US, EU, CA and international regulations.
Canada : Chemical composition is listed on Canada's DSL List.
US Federal : Toxic Substance Control Act (TSCA)
Chemical composition is listed on the TSCA Inventory.
China : Inventory of Existing Chemical Substances Produced or Imported in China
(IECSC)
Chemical composition is listed on the IECSC Inventory.

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Section 16 - Additional Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

ACGIH	: American Conference of Governmental Industrial Hygienists.
CAS	: Chemical Abstracts Service.
DSL	: the Domestic Substances List of Canada.
EC	: European Commission.
IARC	: International Agency for Research on Cancer.
IATA	: International Air Transport Association.
IMDG	: International Maritime Dangerous Goods.
ADR	: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
RID	: Regulations Concerning the International Carriage of Dangerous Goods by Rail.
LD50	: Lethal dose, 50 percent kill.
NDSL	: the Non-domestic Substances List of Canada.
NIOSH	: US National Institute for Occupational Safety and Health.
NTP	: US National Toxicology Program.
OSHA	: US Occupational Safety and Health.
PEL	: Permissible Exposure Level.
REL	: Recommended Exposure Limit.
RTECS	: Registry of Toxic Effects of Chemical Substances.
STEL	: Short Term Exposure Limit.
TDG	: Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations.
TSCA	: Toxic Substances Control Act of USA.
IECSC	: Inventory of Existing Chemical Substances Produced or Imported in China.
TWA	: Time Weighted Average.
TLV	: Threshold Limit Value.

*** End of Report ***

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