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SAFETY DATA SHEET · 安全技术说明书

Material Safety Data Sheet — Oriented Polystyrene Sheet and Film (BOPS)

化学品安全技术说明书 · 双向拉伸聚苯乙烯片材与薄膜（**BOPS**）

Doc. No. API-MSDS-BOPS-2026 **Rev.** 2.0 **Issue date** 2026-11-20 **Supersedes** Rev. 1.0

01 Chemical product and company identification

化学品及企业标识

Chemical formula 化学式	Styrene resin blend 苯乙烯树脂共混物
Product use 产品用途	Envelope related packaging 信封类包装
Other designations 其他名称	OPS / BOPS (Biaxially Oriented Polystyrene) 双向拉伸聚苯乙烯
Manufacturer / supplier 生产/供应企业	Asia Pacific Industry Group Co., Limited 亞太工業集團
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Emergency information 应急信息	24-hour emergency contact: +0086-551-64687285 · 24 小时应急联络电话

02 Composition / information on ingredients

成分/组成信息

Complete composition is provided below and may include some components classified as non-hazardous. 以下给出完整组成，其中可能包含被归类为非危险性的组分。

CAS #	Component 组分	Percent (%) 含量
9003-53-6	**Polystyrene** 聚苯乙烯	40 – 98
9003-55-8	**Styrene-butadiene copolymer** 苯乙烯-丁二烯共聚物	0 – 60
8042-47-5	**White mineral oil** 白矿物油	0 – 3
—	**Colorants** 着色剂	—
1308-38-9	**Chromium (III) oxide** 三氧化二铬	0 – 1.6
Proprietary 专有	**Proprietary colorants** 专有着色剂	< 1
Proprietary 专有	**Proprietary topical coating** 专有表面涂层	< 1

03 Hazards identification

危险性概述

Emergency overview 紧急情况概述**.** Solid, flexible plastic. Clear or various colours. Plastic odour. Dust clouds generated during processing may be explosive. Material burns vigorously and releases a dense, black smoke. Dust and fume from processing can cause irritation of eyes, skin and upper respiratory tract. Contact with molten material can cause thermal burns.

固体柔性塑料，透明或呈多种颜色，具有塑料气味。加工过程中产生的粉尘云可能具有爆炸性。材料燃烧猛烈，并释放浓密黑烟。加工产生的粉尘和烟雾可能刺激眼睛、皮肤和上呼吸道。接触熔融物料可能造成热灼伤。

Potential health effects 潜在健康影响**.** Eyes — can cause irritation 可能引起刺激. Skin — can cause irritation; contact with molten material can cause thermal burns 可能引起刺激，接触熔融物料可造成热灼伤. Inhalation — can cause irritation of the upper respiratory tract 可能刺激上呼吸道.

Health effects of ingredients 组分健康影响**.** As supplied, the colorants are bound into the polymeric matrix and will not be released through skin contact or under anticipated conditions of use. If the material is processed in a way that generates large quantities of fine dust (for example grinding), or is burned, exposure to dust containing the colorants may be created. Chromium (III) compounds can cause irritation of eyes, skin and respiratory tract; IARC/NTP: not classifiable as to carcinogenicity to humans by IARC.

供货状态下着色剂结合在聚合物基体之内，皮肤接触或预期使用条件下不会释放；若以产生大量细粉尘的方式加工（如研磨）或燃烧，则可能形成接触含着色剂粉尘的风险。三价铬化合物可能刺激眼睛、皮肤和呼吸道；IARC 未对其人类致癌性作出分类。

Medical conditions aggravated by exposure 接触后可能加重的疾病**.** Dust from processing: asthma, chronic lung disease and skin rashes. 加工粉尘：哮喘、慢性肺部疾病及皮疹。

04 First aid measures

急救措施

Eyes 眼睛	Dust from processing: flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician. 加工粉尘：用大量清水或生理盐水冲洗眼睛至少 15 分钟，并就医。
Skin 皮肤	Dust from processing: wash skin with soap and water for at least 15 minutes; consult a physician if irritation persists. Molten polymer: cool rapidly with cold water, do not attempt to peel material from skin, get medical treatment for thermal burns. 加工粉尘：用肥皂和清水清洗至少 15 分钟，刺激持续请就医。熔融聚合物：立即用冷水快速冷却，不要剥离，热灼伤须接受医疗处理。
Inhalation 吸入	Dust from processing: remove to fresh air. If unconscious or severely injured, check airway, breathing and pulse; perform CPR if there is no pulse or respiration. Consult a physician. 加工粉尘：移至空气新鲜处。若失去意识或伤情严重，检查气道、呼吸与脉搏；无脉搏或呼吸时实施心肺复苏，并就医。

05 Fire fighting measures

消防措施

Flammable / combustible properties 易燃/可燃特性	Material burns vigorously and releases a dense, black smoke. 材料燃烧猛烈，并释放浓密黑烟。
Fire / explosion 火灾/爆炸	Dust or fines dispersed in the air can be explosive. 悬浮于空气中的粉尘或细粉可能具有爆炸性。
Extinguishing media 灭火介质	Dry chemical, water spray (fog), foam or carbon dioxide. Manual fire fighting may be difficult due to thick smoke. 干粉、喷雾水、泡沫或二氧化碳；浓烟较大时人工灭火可能困难。
Fire fighting equipment 消防人员防护	NIOSH-approved positive-pressure self-contained breathing apparatus and full protective clothing. 经 NIOSH 认证的正压自给式呼吸器与全套防护服。

06 Accidental release measures

泄漏应急处理

Use dry cleaning procedures. Recover using mechanical means. 采用干式清扫程序，用机械方式回收。

07 Handling and storage

操作处置与储存

Good housekeeping practices should be employed. Avoid generating dust. Keep away from ignition sources and strong oxidizers. Store rolls upright in the original wrap, away from direct sun and heat sources. 应保持良好的现场清洁，避免产生粉尘；远离火源与强氧化剂；卷材立放于原包装内，远离阳光直射与热源。

08 Exposure controls / personal protection

接触控制 / 个体防护

Engineering controls 工程控制**.** If dust is generated through processing, use with adequate ventilation to meet the exposure limits in this section. 若加工产生粉尘，应在通风良好处使用，以满足本节接触限值要求。

Personal protective equipment 个体防护装备**.** Respiratory — if dust is generated, use NIOSH-approved respiratory protection as specified by an industrial hygienist; suggested N95. Eyes — wear safety glasses or goggles. Skin — wear appropriate gloves. 呼吸：按工业卫生师指定使用 NIOSH 认证防护用品，建议 N95；眼睛：佩戴安全眼镜或护目镜；皮肤：佩戴合适手套。

Exposure guidelines 接触限值**.** ACGIH and OSHA have not developed exposure limits for this product or for any of its components. ACGIH 与 OSHA 尚未针对本产品及其任何组分制定接触限值。

09 Physical and chemical properties

理化特性

Physical state 物理状态	Solid 固体	**Appearance** 外观	Clear or coloured plastic 透明或着色塑料
Boiling point 沸点	Not applicable 不适用	**Melting point** 熔点	Not determined 未测定
Vapour pressure 蒸气压	Not applicable 不适用	**Vapour density** 蒸气密度	Not applicable 不适用
Solubility in water 水溶性	Insoluble 不溶	**Specific gravity** 比重	1.05 (film) 薄膜实测

10 Stability and reactivity

稳定性和反应性

Stability 稳定性	Stable under normal conditions of use, storage and transportation. 正常使用、储存和运输条件下稳定。
Conditions to avoid 应避免的条件	Strong oxidizers, and aromatic and chlorinated hydrocarbons. 强氧化剂，以及芳香烃和氯化烃。
Hazardous decomposition 危险分解产物	Carbon monoxide, carbon dioxide, aldehydes and other partially oxidized hydrocarbons. 一氧化碳、二氧化碳、醛类及其他部分氧化的烃类。
Hazardous polymerization 危险聚合	Will not occur. 不会发生。

11 Toxicological information

毒理学信息

A: General product information — No information available for the product. 本产品暂无可用信息.

B: Component analysis — LD50/LC50. White mineral oil (8042-47-5); oral LD50 rat: >5000 mg/kg. 白矿物油：大鼠经口 LD50 >5000 mg/kg。

Carcinogenicity 致癌性**.** None of the components of this product are listed as carcinogenic by IARC, NTP or OSHA. 本产品的任何组分均未被 IARC、NTP 或 OSHA 列为致癌物。References 参考文献: Polystyrene (9003-53-6) IARC Supplement 7, 1987; Monograph 19, 1979 · Styrene-butadiene copolymer (9003-55-8) IARC Supplement 7, 1987; Monograph 19, 1979 · Chromium (III) oxide (1308-38-9) IARC Monograph 49, 1990; Supplement 7, 1987; Monograph 23, 1980; Monograph 2, 1973.

12 Ecological information

生态学信息

A: General product information — No information available for the product. 本产品暂无可用信息.

B: Component analysis — ecotoxicity, aquatic. White mineral oil (8042-47-5); 96 h LC50 Lepomis macrochirus: >10,000 mg/L. 白矿物油：96 小时 LC50（蓝鳃太阳鱼）>10,000 mg/L。

Environmental fate 环境归趋**.** No information available for the product. 本产品暂无可用信息。

13 Disposal considerations

废弃处置

Disposal instructions 废弃处置说明**.** Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill. 应尽可能重复使用或回收；材料可在卫生填埋场处置。

US EPA waste number & descriptions 美国 **EPA** 废物编号及说明**.** Not federally regulated in the U.S. if disposed of "as is"; otherwise characterize in accordance with applicable regulations (40 CFR 261 or state equivalent). Component waste numbers: RCRA codes other than those described may apply depending on use of the product; refer to 40 CFR 261.
按原状处置时在美国不受联邦法规管制；其他情形按 40 CFR 261 或各州等效法规判定特性。视使用情况可能适用其他 RCRA 代码。

14 Transportation information

运输信息

Item 项目	Value 内容
Proper shipping name 正确运输名称	Not regulated 不受管制
Hazard class 危险类别	—
UN / NA number	—
Packing group 包装类别	—
RQ · Other — technical name · marine pollutant	—

Note (1): when "not regulated", enter the proper freight classification, MSDS number and product name on the shipping paperwork. Canadian TDG hazard class & PIN: not regulated. 注：货物为“不受管制”时，请在运输单据上填写正确的货运分类、MSDS 编号及产品名称；加拿大 TDG 同样不受管制。

15 Regulatory information

法规信息

US federal regulations 美国联邦法规**.** In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals. None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4). 本材料不含、制造中亦未使用消耗臭氧层物质；组分均未列入 SARA 302 / 313 或 CERCLA。

SARA 311/312 PHYSICAL AND HEALTH HAZARD CATEGORIES

Immediate (acute) health hazard 急性健康危害	No 否	**Delayed (chronic) health hazard** 慢性健康危害	No 否
Fire hazard 火灾危害	No 否	**Sudden release of pressure** 压力骤释	No 否
Reactive 反应性	No 否	—	—

State regulations 州级法规**.** The following components appear on one or more state hazardous substances lists. 下列组分出现在以下一个或多个州危险物质清单中。

Component 组分	CAS #	CA	FL	MA	MN	NJ	PA
Polystyrene 聚苯乙烯	9003-53-6	No	No	No	No	Yes	No
Styrene-butadiene copolymer 苯乙烯-丁二烯共聚物	9003-55-8	No	No	No	No	Yes	No
White mineral oil 白矿物油	8042-47-5	No	No	No	No	Yes	No
Chromium (III) oxide 三氧化二铬	1308-38-9	No	No	Yes	No	Yes	No

Other regulations 其他法规**.** No components are listed in the WHMIS IDL. 无组分列入 WHMIS IDL。

CHEMICAL INVENTORIES 化学品名录

Component 组分	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Polystyrene	9003-53-6	Yes	Yes	No	Yes	Yes
Styrene-butadiene copolymer	9003-55-8	Yes	Yes	No	Yes	Yes
White mineral oil	8042-47-5	Yes	Yes	Yes	Yes	No
Chromium (III) oxide	1308-38-9	Yes	Yes	Yes	Yes	Yes

16 Other information

其他信息

Item 项目	Content 内容
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