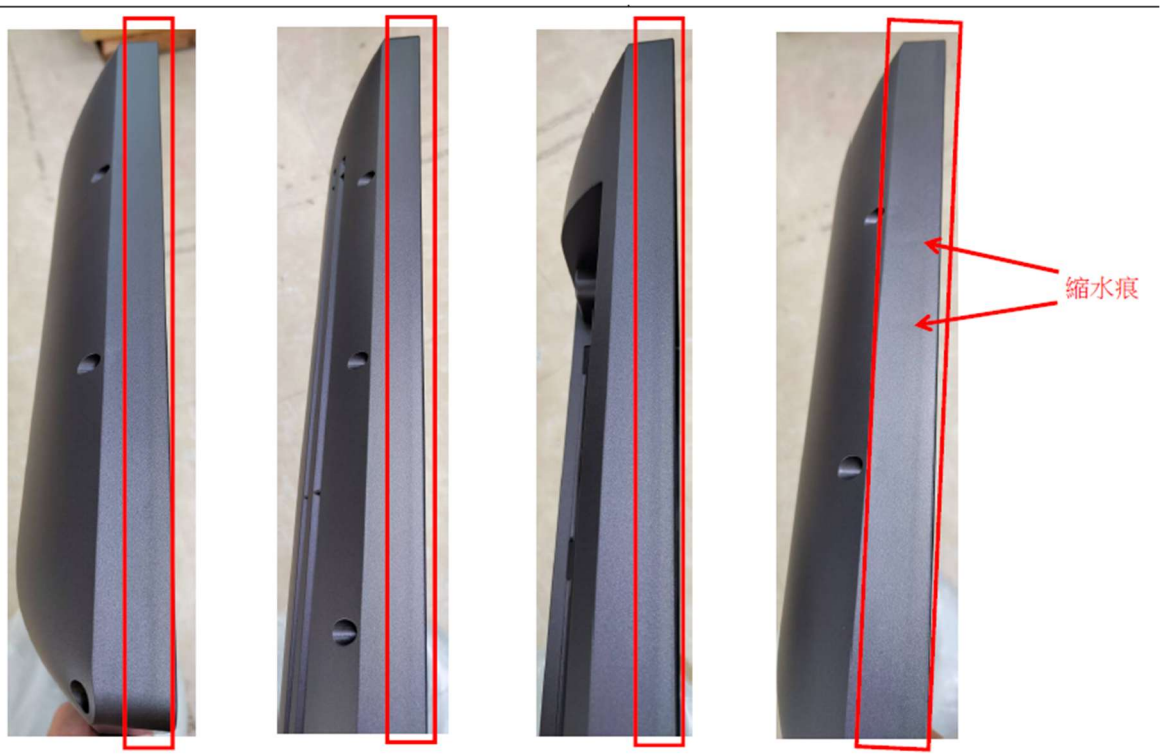
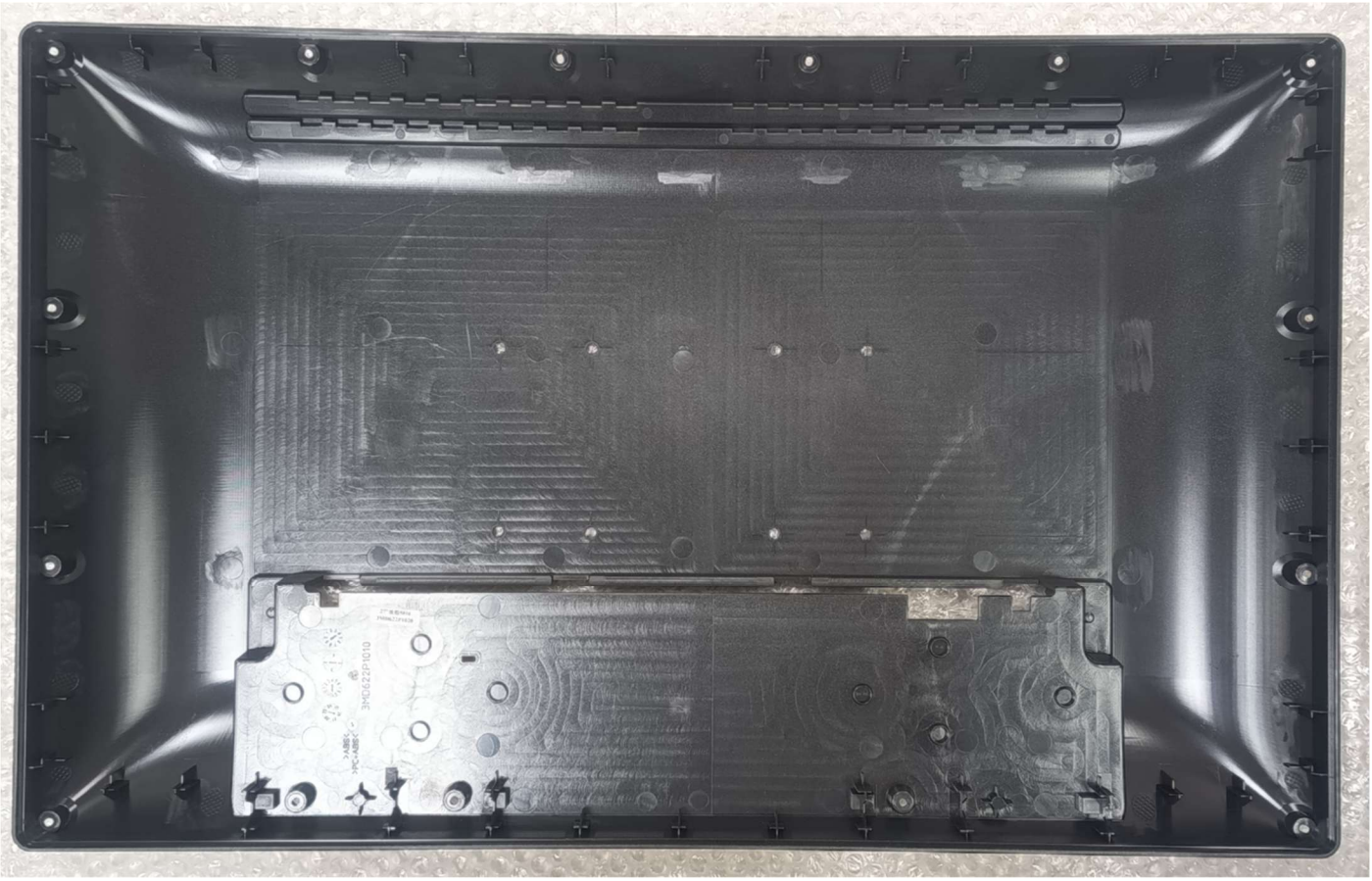
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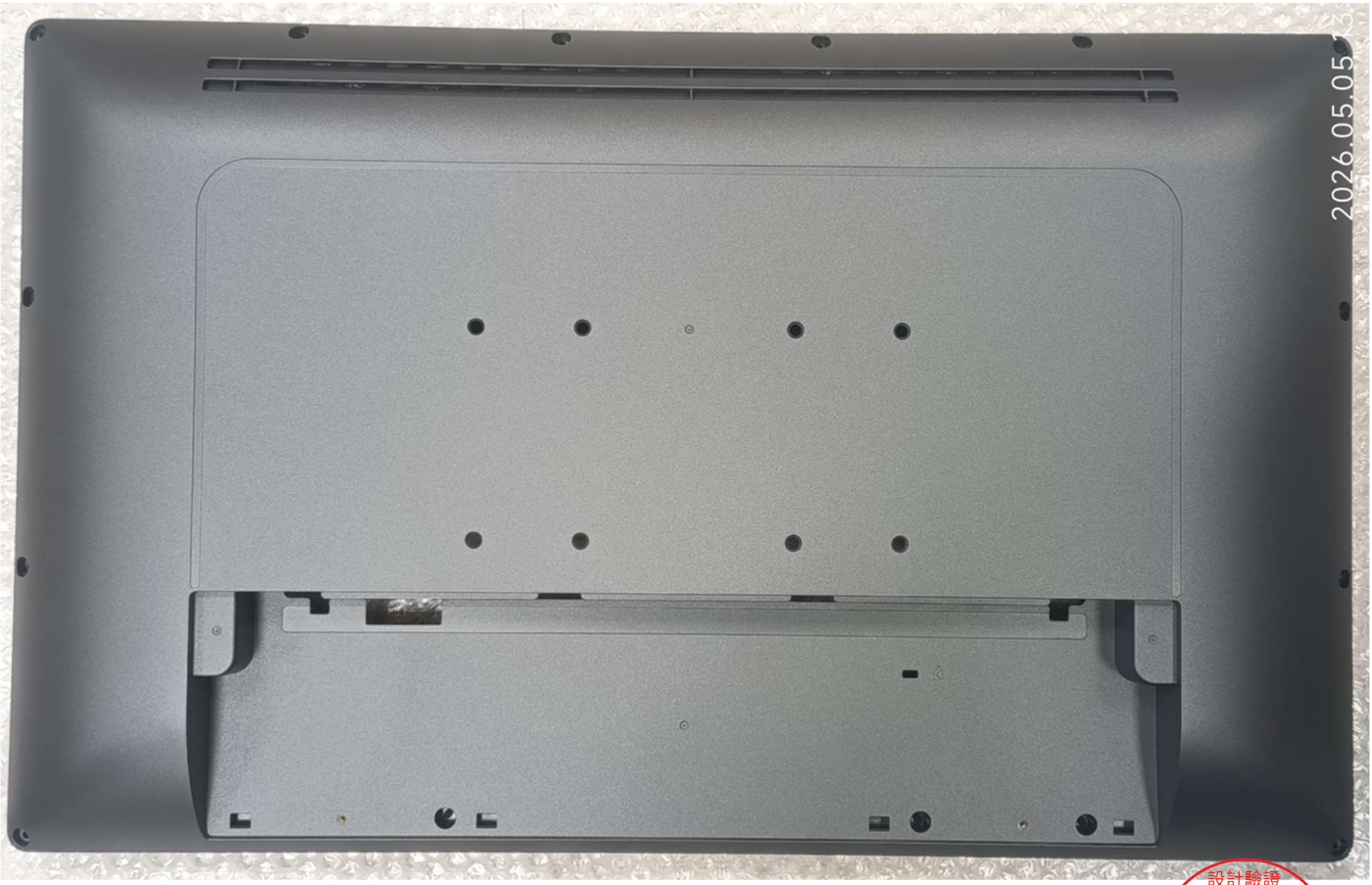
RD 確認如下圖可允收,如 mail 說明

應力痕 (四周側邊) & 縮水痕	



設計驗證
工程課
2026 -05- 05
發行

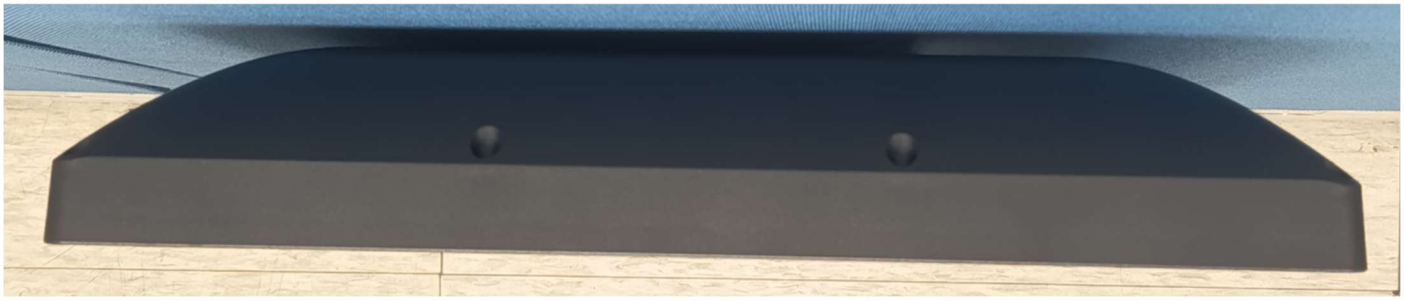




設計驗證
工程課
2026 -05- 05
發行
鈺瀚科技開發股份有限公司







設計驗證
工程課
2026 -05- 05
發行

SPECIFICATIONS
FOR
APPROVAL

客戶: CUSTOMER:	鈺緯科技開發(股)公司
品名: MODEL NO:	REAR COVER (MCD271002,FR3010,BLACK-5816)
料號: PART NO:	3MD622P1020 (M3474)
版次:	1
日期: Date:	2026.04.29

設計驗證
工程課
2026 -05- 05
發行
鈺緯科技開發股份有限公司

SINGATURE OF APPROVAL

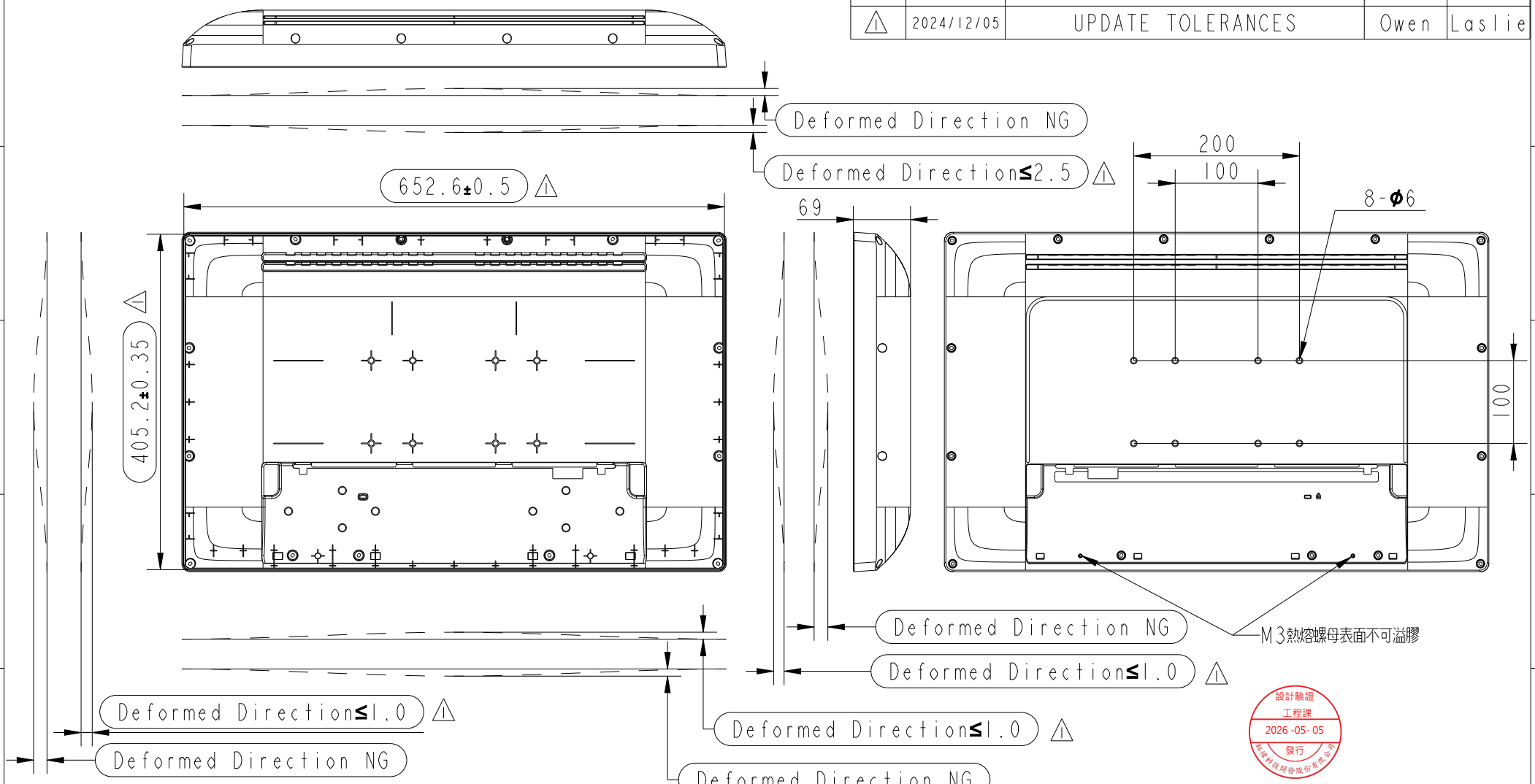
成發塑膠廠股份有限公司

桃園縣龜山鄉萬壽路一段555號

TEL:(02)8209-1583~4　8209-9528~9
FAX:(02)8209-8658

網址:http://www chengfa.com.tw

REV.	DATE	DESCRIPTION	BY	APVD
1	2024/12/05	UPDATE TOLERANCES	Owen	Laslie



設計驗證 工程課 2026-05-05 發行

1. 材質 ：PC+ABS (Bayer FR3010) 防火V0
   T=2.5 & 3.5
2. 表面處理 ： 咬花 ， MT-11010
3. 熱熔螺母表面不可油污扭力7kg，拉拔力7kg。
4. 未標註的拔模角以不會拉模角度位主其餘以0.5度製作.
5. 所有外觀面不允許有應力痕，縮水痕，結合痕與刮傷與PL線.
6. 膠口與頂針痕須低於該平面0.05mm.
7. 未標註的倒圓角以自然R角0.2mm製作.
8. 同心度公差爲± 0.05 mm.
9. 標有" O "符號爲重要尺寸.
10. 未標示公差尺寸，請參考一般公差表.
11. 圖面未標示尺寸處，請參考3D圖檔.
12. 所有表面無油污.

PART NO.	COLOR	REMARK
3MD622P1010	White, N9	(M3474)
✓ 3MD622P1020	Black, 5816	(M3474)

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	V c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	KimHuang	2022/10/14	
CHK by			
APVD by	Laslie	2023-09-04	
APVD NO.:		3D FILE NAME: REAR_COVER_3MD622P1010	

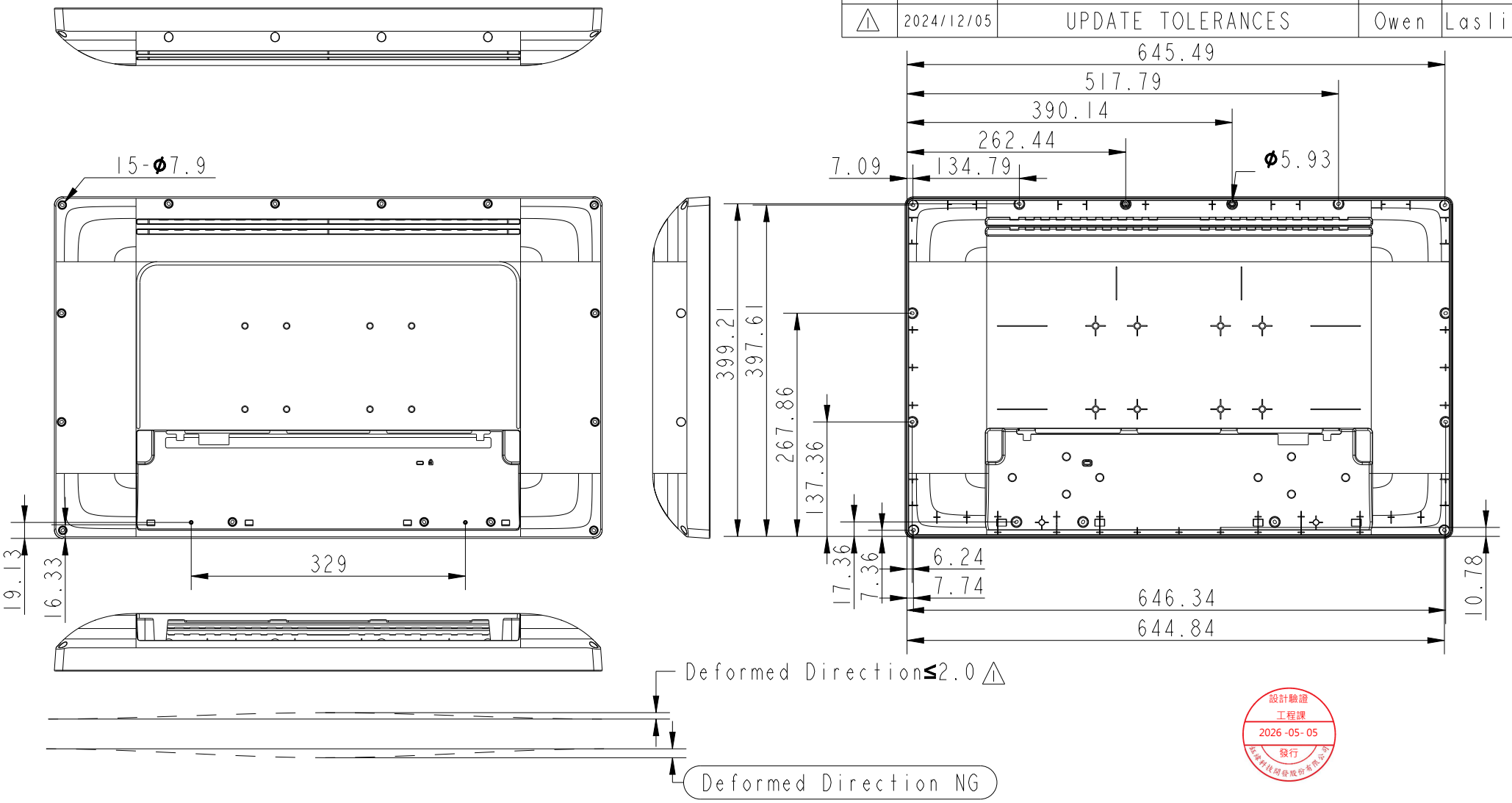
UNITS:mm	SCALE: 1/1	SHEET: 1 OF 2	MODEL NO.:
MATERIAL:		TREATMENT:	

PART NAME: REAR COVER (PC270434R(RGD2773AM11-P))

PART NO.: SEE TABLE | REV. 1

DIVA Laboratories ,Ltd.

REV.	DATE	DESCRIPTION	BY	APVD
1	2024/12/05	UPDATE TOLERANCES	Owen	Laslie



設計驗證
工程課
2026-05-05
發行

RANGE OF DIMENSION	TOLERANCE CLASS DESIGNATION f	V m	c
UP TO 30	±0.10	±0.20	±0.50
ABOVE 30~120	±0.15	±0.30	±0.80
ABOVE 120~315	±0.20	±0.50	±1.20
ABOVE 315~1000	±0.30	±0.80	±2.00
ANGLE ±1° (±1.75/100)			

THIRD ANGLE PROJECTION

DSGD by	KimHuang	2022/12/05	
CHK by			
APVD by	Laslie	2023-09-04	
APVD NO.:		3D FILE NAME: REAR_COVER_3MD622P1010	

UNITS:mm	SCALE: 1/1	SHEET: 2 OF 2	MODEL NO.:	
MATERIAL:		TREATMENT:		

PART NAME: REAR COVER (PC270434R(RGD2773AM11-P))

PART NO.: SEE TABLE | REV. 1

DIVA Laboratories, Ltd.

成發塑膠廠股份有限公司

機構零件尺寸量測紀錄表

客戶	鈺緯	品名	REAR COVER	料號	3MD622P1020
機種	MCD271002,FR3010,BLACK-5816				
量測日期	2026.03.17	量測者	揚國輝		

尺寸實際量測記錄值

編號	位置/圖面尺寸	實際測量數據 (1)	實際測量數據 (2)	實際測量數據 (3)	備註
1	C1/405.2±0.35	405.05	405.03	404.88	
2	B3/652.6±0.5	652.44	652.50	652.48	

說明：1.客戶如有訂定尺寸公差者，依客戶標準，如未訂定者，依本公司訂定一般公差判定。

2.本公司塑膠製品之一般公差訂定如下：(單位㎜)

0-25	±0.1	25-100	±0.2	100-250	±0.3
250-500	±0.5	500-1000	±1.0	1000 以上	±1.5

核准：　　審核：　李艷霞　　承辦：揚國輝

Statement on Restriction of Hazardous Substances in electrical and electronic equipment (RoHS) Directive

Directive 2011/65/EU and Amendment (EU) 2015/863 restrict the use of certain hazardous substances in electrical and electronic equipment above specific thresholds.

To the best of our knowledge the products of Covestro Deutschland AG and its affiliates used in electrical and electronic equipment do not intentionally contain substances identified in Directive 2011/65/EU or Amendment (EU) 2015/863 and therefore these substances are not expected to be present above limit values as listed below. The presence of analytically detectable traces, which have possibly been introduced via raw materials, auxiliaries and additives, cannot be excluded. Specific analyses to measure such traces have not been performed on raw materials or final products.

- Lead (limit value 0,1 %)
- Mercury (limit value 0,1 %)
- Cadmium (limit value 0,01 %)
- Hexavalent chromium (limit value 0,1 %)
- Polybrominated biphenyls (PBB) (limit value 0,1 %)
- Polybrominated diphenyl ethers (PBDE) (limit value 0,1 %)
- Bis(2-ethylhexyl) phthalate (DEHP) (limit value 0,1 %)
- Butyl benzyl phthalate (BBP) (limit value 0,1 %)
- Dibutyl phthalate (DBP) (limit value 0,1 %)
- Diisobutyl phthalate (DIBP) (limit value 0,1 %)

Version 5. The information contained herein is believed to be accurate as of the date of this document. If any of the above mentioned regulations change after the date of declaration, this information is no longer valid.

The manner in which you use our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products to determine suitability for your processing and intended uses. Your analysis must at least include testing to determine suitability from a technical, health, safety, and environmental and regulatory standpoint. Such testing has not necessarily been done by Covestro, and Covestro has not obtained any approvals or licenses for a particular use or application of the product, unless explicitly stated otherwise.

Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request.

All information and including technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed by you that you assume and hereby expressly release indemnify us and hold us harmless from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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Covestro Deutschland AG
D-51365 Leverkusen, Germany
Product & Process Quality

Date: 2023-05-01

Board of management: Dr. Markus Steilemann (chairman), Sucheta Govil, Dr. Klaus Schäfer, Dr. Thomas Toepfer
Chairman of the supervisory board: Dr. Richard Pott
Registered office: 51365 Leverkusen, Local court of Cologne, HRB 49892

Bayblend® FR3010

FR grades / Non reinforced	(PC+ABS)-Blend; flame retardant; Vicat/B 120 temperature = 110 °C; increased heat resistance; UL recognition 94 V-0 at 1.5 mm; glow wire temperature (GWFI): 960 °C at 2.0 mm; improved chemical resistance and stress cracking behavior; successor to FR2010
ISO Shortname	PC+ABS FR(40)

	Property	Test Condition	Unit	Standard	typical Value
Rheological properties					
C	Melt volume-flow rate	240 °C/ 5 kg	cm³/10 min	ISO 1133	15
	Melt viscosity	1000 s^{-1}/ 260 °C	Pa·s	b.o. ISO 11443-A	245
	Molding shrinkage, parallel	150x105x3 mm³/ 240 °C / MT 80 °C	%	b.o. ISO 2577	0.5 - 0.7
	Molding shrinkage, normal	150x105x3 mm³/ 240 °C / MT 80 °C	%	b.o. ISO 2577	0.5 - 0.7
Mechanical properties (23 °C/50 % r. h.)					
C	Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2700
C	Yield stress	50 mm/min	MPa	ISO 527-1,-2	60
C	Yield strain	50 mm/min	%	ISO 527-1,-2	4.0
	Stress at break	50 mm/min	MPa	ISO 527-1,-2	50
	Strain at break	50 mm/min	%	b.o. ISO 527-1,-2	> 50
	Izod impact strength	23 °C	kJ/m²	ISO 180/U	N
	Izod notched impact strength	23 °C	kJ/m²	ISO 180/A	35
	Izod notched impact strength	-30 °C	kJ/m²	ISO 180/A	10
Thermal properties					
C	Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	90
C	Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	100
C	Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	108
	Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	110
C	Coefficient of linear thermal expansion, parallel	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.76
C	Coefficient of linear thermal expansion, normal	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.8
C	Burning behavior UL 94 (1.5 mm) [UL recognition]	1.5 mm	Class	UL 94	V-0
C	Burning behavior UL 94-5V [UL recognition]	2.0 mm	Class	UL 94	5VB
	Burning behavior UL 94-5V [UL recognition]	3.0 mm	Class	UL 94	5VA
C	Oxygen index	Method A	%	ISO 4589-2	32
Electrical properties (23 °C/50 % r. h.)					
C	Relative permittivity	100 Hz	-	IEC 60250	3.2
C	Relative permittivity	1 MHz	-	IEC 60250	3.1
C	Dissipation factor	100 Hz	10^{-4}	IEC 60250	50
C	Dissipation factor	1 MHz	10^{-4}	IEC 60250	70
C	Volume resistivity		Ohm·m	IEC 62631-3-1	1E14
C	Surface resistivity		Ohm	IEC 62631-3-2	1E16
C	Electrical strength	1 mm	kV/mm	IEC 60243-1	35
C	Comparative tracking index CTI	Solution A	Rating	IEC 60112	350
Other properties (23 °C)					
C	Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.5
C	Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C	Density		kg/m³	ISO 1183-1	1180
Processing conditions for test specimens					
C	Injection molding - Melt temperature		°C	ISO 294	240
C	Injection molding - Mold temperature		°C	ISO 294	80
C	Injection molding - Injection velocity		mm/s	ISO 294	240

Bayblend® FR3010

	Property	Test Condition	Unit	Standard	typical Value
Recommended processing and drying conditions					
	Melt temperatures		°C	-	240 - 270
	Standard Melt temperature		°C	-	260
	Barrel Temperatures - Rear		°C	-	220 - 230
	Barrel Temperatures - Middle		°C	-	225 - 235
	Barrel Temperatures - Front		°C	-	230 - 240
	Barrel Temperatures - Nozzle		°C	-	255 - 265
	Mold Temperatures		°C	-	60 - 90
	Hold Pressure (% of injection pressure)		%	-	50 - 75
	Plastic Back Pressure (specific)		bar	-	50 - 150
	Peripheral Screw Speed		m/s	-	0.05 - 0.2
	Shot-to-Cylinder Size		%	-	30 - 70
	Dry Air Drying Temperature		°C	-	80
	Dry Air Drying Time		h	-	4
	Moisture Content max. (%)		%	-	<= 0,02
	Vent Depth		mm	-	0.025 - 0.075

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break

Bayblend® FR3010

Disclaimer

Typical value

These values are typical values only. Unless explicitly agreed in written form, the do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

General

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and product labels must be observed prior to working with our products.

Non Medical and non Food Contact Grade

This product is not designated for the manufacture of a pharmaceutical/medicinal product, medical device or of intermediate products for medical devices1). This product is also not registered for Covestro for the use in other specifically regulated applications, in particular applications requiring regulatory registration, approval or notification (e.g. including cosmetics, plant protection, food processing, food contact and others). If the intended use of the product is for the manufacture of a pharmaceutical, medical device or of intermediate products for medical devices or for other specifically regulated applications which may lead to a regulatory obligation of Covestro, Covestro must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a pharmaceutical, medical device or intermediate products for medical devices or for the use in other specifically regulated applications, must be made solely by the purchaser of the product without relying upon any representations by Covestro, irrespective of the existence of any regulatory obligation for the registration, approval or notification. 1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

Recommended Processing and Drying Conditions

Barrel temperatures are valid for a standard 3-zone barrel. Temperature set-up for different barrel types may change according to configuration. Values for hold pressure as percentage of injection pressure may vary depending on, amongst others, part geometry, injection molding machine and injection mold. Drying conditions are for dry air dryers only. Drying times and drying temperatures may differ depending on valid dryer type. Further information is provided by your local Covestro support as well as in the following brochures: Injection Molding of High Quality Molded Parts - Drying; Determining the Dryness of Makrolon by TVI Test; The fundamentals of shrinkage in thermoplastics; Shrinkage and deformation of glass fiber reinforced thermoplastics [...]. https://www.plastics.covestro.com/Library/Overview.aspx

Disclaimer shrinkage data

Shrinkage data is provided as a reference only, and is based on sample plaques molded under specific, controlled processing conditions. Shrinkage rates in production parts can vary and are influenced by several variables such as, but not limited to: part design (e.g. part size, thickness and geometry), mold design (e.g. gate type and location, runner design, mold materials, cooling system), molding conditions (e.g. processing temperature, mold temperature, packing time and pressure, injection speed). We suggest materials be evaluated in existing applicable molds to achieve the most accurate shrinkage estimation for your specific application and processing practices. The final choice of shrinkage is the responsibility of the user of the material, and should be made based on your experience and testing results. We shall not be liable for any damage caused by the use of the shrinkage data as provided by us. If you have any questions, pls consult technical representatives from Covestro.

Covestro AG

Kaiser-Wilhelm-Allee 60

51373 Leverkusen

Germany

www.solutions.covestro.com

BAYBLEND FR3010 000000

版本 1.22　　修订日期 11.09.2025　　打印日期 05.04.2026

第1部分：化学品及企业标识

1.1 产品标识

BAYBLEND FR3010 000000
聚碳酸酯/丙烯腈-丁二烯-苯乙烯共聚物

物料号: 00800632

1.2 物质或混合物的推荐用途和限制用途

用途:
模制塑料产品的生产

1.3 安全技术说明书制作者的详细信息

科思创聚合物（中国）有限公司
科思创（上海）投资有限公司
中国上海浦东新区平家桥路36号晶耀商务广场5号楼25层
邮政编码：200126

电话：(86) 21-8020-7777
传真：(86) 21-8020-8989
Email: service.sha@cx.covestro.com

1.4 应急电话

应急咨询专线电话：如遇紧急情况，请拨 (86)-532-83889090
消防应急电话号码：(86)119

第2部分：危险性概述

2.0 紧急情况概述

根据GHS分类不属于危害化学品。

2.1 物质或混合物的分类

GHS危险性类别:

非危险物质或混合物。

2.2 标签要素

GHS-象形图
非危险物质或混合物。

2.3 其他危险

混合物中含有以下百分比成分的物质其急性吸入毒性未知： 10 %

第3部分: 成分/组成信息

产品类型: 混合物

3.2 混合物

聚碳酸酯/丙烯腈-丁二烯-苯乙烯共聚物

根据GHS规定,不含有危险组分

第4部分: 急救措施

4.1 急救措施

吸入: 将患者移至新鲜空气区，并使其保暖休息，若呼吸困难，就医。

若接触皮肤: 接触热熔物： 立即用大量水冷却。 既不能强制也不能使用溶剂除去粘在皮肤上的产品结皮。 为治疗可能引起的皮肤烫伤及对皮肤的适当护理，应立即就医。

室温下操作该产品参考以下信息。 皮肤接触时，立即用大量的水和肥皂彻底冲洗污染部位。

若接触眼睛: 撑开眼睑，用温水长时间冲洗（至少10分钟），就诊眼科医生。 取下隐形眼镜。

食入: 用水漱口。 没有医生的建议。不要催吐。 如果症状持续，请就医。 将患者转移至空气新鲜处，休息，保持利于呼吸的姿势。

4.2 最重要的症状和效果，包括急性和迟发性

医疗信息: 对症治疗。 如果被大量摄入或吸入，立即联系中毒处置专家。

4.3 需要立即引起医疗照顾及特殊处理的指示

治疗措施： 无适用资料。

第5部分: 消防措施

5.1 灭火介质

合适的灭火剂: 水喷射,灭火粉末,二氧化碳(CO2),泡沫,干粉

不合适的灭火剂: 高流量的水喷射

5.2 物质或混合物的特殊危害

燃烧时释放一氧化碳、二氧化碳、氮氧化物和痕量的氰化氢。 在着火和/或爆炸情况下,不要吸进烟尘。

5.3 消防人员注意事项:

消防人员必须佩戴自供气式呼吸器。

禁止污染的灭火用水流入土壤，地下水或地表水中。

第6部分: 泄露应急处理

6.1 个人预防措施、防护设备和应急程序

戴防护设备（见第8部分）。 令未经授权人员离开。 颗粒－小心滑倒!

6.2 环境保护措施

禁止倒入地表水或生活污水系统。

6.3 污染物收集和清除的方法

使用机械操作设备。 防止形成粉尘。

6.4 参考其他章节

其它废弃措施见第13部分。

第7部分: 操作处置与储存

7.1 安全操作的预防措施

在建议的处理条件下，会放出少量的单体剩余物和溶剂残余物。 应提供良好的通风和/或局部排气设施，（有害物浓度）不应超过第8部分建议的工作场所接触限值。

粉尘必须通过有效排风除去。

远离食物，饮料和烟草。 休息前和工作后要洗手，并涂护肤药膏。 更换被污染的衣物。

如发生泄漏，须彻底清理。 妥善清洗或处理设备和残留物，避免污染土壤或水道。

7.2 安全储存条件，包括不相容物

对储存条件无特殊要求。

7.3 特定最终用途

无适用资料。

第8部分: 接触控制/个体防护

8.1 控制参数

不含有职业接触限值的物质。

加工该产品时，尤其是在高温处理过程中要遵守以下物质的有关法规。 基于经验要在产生蒸气的区域保证有效新鲜空气的供给和提供足够的通风换气设施，以确保遵守以下所提供的极限值。

物质		依据	类型	数值	阈值	备注
丙烯腈		CN OEL	TWA	1 mg/m3		
丙烯腈		CN OEL	STEL	2 mg/m3		
丙烯腈		CN OEL				可能经由皮肤吸收
苯乙烯		CN OEL	STEL	100 mg/m3		
苯乙烯		CN OEL	TWA	50 mg/m3		
苯乙烯		CN OEL				可能经由皮肤吸收
1,3-丁二烯		CN OEL	TWA	5 mg/m3		
乙苯		CN OEL	TWA	100 mg/m3		

乙苯		CN OEL	STEL	150 mg/m3		
苯酚		CN OEL				可能经由皮肤吸收
苯酚		CN OEL	TWA	10 mg/m3		
氯苯		CN OEL	TWA	50 mg/m3		
2,2-双-(4-羟苯基)-丙烷 (双酚A)		CN OEL	TWA	5 mg/m3		
粉尘的一般限值		CN OEL	TWA	8 mg/m3		总粉尘
粉尘的一般限值		CN OEL	STEL	10 mg/m3		总粉尘

8.2 暴露控制

适当的工程控制
如果使用过程中会产生粉尘、烟雾、气体、蒸气或雾气，请采用工艺隔离设备，局部通风系统或其它工程控制措施以确保工人对空气中污染物的暴露量低于建议的或法定的限值。

呼吸系统防护
通风不充分的工作区要求有呼吸防护。 产生粉尘时，使用符合EN 143规定的带P1型颗粒过滤器的呼吸防护设备。

手防护
防护手套的合适材料；EN 374:
聚氯乙烯 - PVC (>= 0.5 mm)
污染和/或损坏的手套必须更换。 操作热物质时，用防烫手套。

眼睛防护
带有防护边罩的安全眼镜符合 EN166要求

皮肤和身体防护
穿着适当的防护服。 设备应符合EN 1149标准

更多防护措施
穿戴合适的防护设备。使用时，严禁饮食及吸烟。确保在工作场所附近有洗眼和淋浴设施。脱掉污染的衣服，并在重新使用之前洗净。 作业后彻底清洗脸部、手和任何暴露的皮肤。 使用适当的换衣技术移除可能受污染的衣物。 在处理热材料时，戴耐热保护性手套，穿能够耐熔化产品温度的衣服和面罩。

第9部分: 理化特性

9.1 基本理化信息

物态:	固体 在 20 ° C 在 1,013 百帕
外观:	颗粒状的
颜色:	天然色
气味:	无味
嗅觉阈值:	无数据
pH值:	不适用
软化点:	100 - 200 ° C
沸点/沸程:	无数据
闪点:	无数据
蒸发速率:	无数据
易燃性:	无数据
燃烧值:	无数据
较高/较低可燃性或爆炸极限:	不适用
蒸气压:	不适用

蒸气密度:	无数据	
密度:	约 1.1 - 1.2 g/cm³	德国工业标准 (DIN)53479
堆密度:	600 - 700 kg/m³	
与水的混溶性:	无数据	
水溶性:	几乎不溶	
表面张力:	无数据	
辛醇/水分配系数的对数值:	无数据	
自燃温度:	> 390 ° C	
引燃温度:	> 390 ° C	
分解温度:	>= 380 ° C	
燃烧热:	无数据	
动力粘度:	不适用	
运动粘度:	无数据	
爆炸特性:	无数据	
粉尘爆炸级别:	无数据	
氧化特性:	无数据	

9.2 其它信息

所示值不一定要与产品规格相符。有关规格数据，请参考“产品信息表”或“技术信息表”。

第10部分：稳定性和反应活性

10.1 反应性

正常条件下稳定。

10.2 化学稳定性

此产品化学性质稳定。 由于不恰当的处理导致的过热和燃烧时产生的烟雾可能会对健康产生危害。

10.3 可能的危害反应

正确储存或操作时，无危害反应。 正常条件下稳定。

10.4 避免接触的条件

防止形成粉尘。

10.5 不相容材料

本信息不可用。

10.6 危险分解产物

因闷烧和不完全燃烧放出主要含有CO和CO2的毒性烟雾。

在建议的处理条件下会放出少量的空气污染物。

加工该产品时，尤其是在高温处理过程中要遵守以下物质的有关法规。

丙烯腈
GHS危险性类别: 易燃液体 2 H225 致癌性 1B H350 急性毒性 3 吸入 H331 急性毒性 3 经皮 H311 急性毒性 3 经口 H301 特异性靶器官毒性（一次接触）3 H335 皮肤刺激 2 H315 眼损伤 1 H318 皮肤过敏 1 H317 慢性水生毒性 2 H411 生殖毒性 2 H361d

苯乙烯

GHS危险性类别: 易燃液体 3 H226 急性毒性 4 吸入 H332 眼刺激 2 H319 皮肤刺激 2 H315 特异性靶器官毒性 (一次接触) 3 H335 致癌性 2 H351 生殖毒性 2 H361d 特异性靶器官毒性(反复接触) 1 吸入 H372 吸入危险 1 H304 急性水生毒性 2 H401 慢性水生毒性 3 H412

1,3-丁二烯
GHS危险性类别: 易燃气体 1 H220 致癌性 1A H350 加压气体 生殖细胞致突变性 1B H340

4-乙烯基环己烯
GHS危险性类别: 致癌性 2 H351 易燃液体 2 H225 皮肤刺激 2 H315 吸入危险 1 H304 生殖毒性 2 H361 慢性水生毒性 3 H412

乙苯
GHS危险性类别: 易燃液体 2 H225 急性毒性 4 吸入 H332 致癌性 2 H351 特异性靶器官毒性(反复接触) 2 吸入 H373 吸入危险 1 H304 急性水生毒性 2 H401 慢性水生毒性 3 H412

苯酚
GHS危险性类别: 急性毒性 3 经口 H301 急性毒性 3 吸入 H331 急性毒性 3 经皮 H311 皮肤腐蚀 1B H314 眼损伤 1 H318 生殖细胞致突变性 2 H341 特异性靶器官毒性(反复接触) 2 H373 急性水生毒性 2 H401 慢性水生毒性 2 H411

4-叔丁基苯酚
GHS危险性类别: 皮肤刺激 2 H315 眼损伤 1 H318 生殖毒性 2 H361f 慢性水生毒性 1 H410

氯苯
GHS危险性类别: 易燃液体 3 H226 皮肤刺激 2 H315 眼刺激 2 H319 急性水生毒性 2 H401 慢性水生毒性 2 H411

2,2-双-(4-羟苯基)-丙烷 (双酚A)
GHS危险性类别: 眼损伤 1 H318 皮肤过敏 1 H317 生殖毒性 2 H361 特异性靶器官毒性 (一次接触) 3 H335 急性水生毒性 1 H400 慢性水生毒性 1 H410

磷酸三苯酯
GHS危险性类别: 急性水生毒性 1 H400 慢性水生毒性 1 H410

第11部分: 毒理学资料

该产品无可用的毒理学研究。

11.1 毒理学效应

急性毒性，经口
无数据资料

急性毒性，经皮
无数据资料

急性毒性，吸入
无数据资料

原发性皮肤刺激
无数据资料

原发性粘膜刺激
无数据资料

致敏性
无数据资料

亚急性，亚慢性和延迟毒性
无数据资料

致癌性

无数据资料

生殖毒性/生育力
无数据资料

生殖毒性/发育毒性/致畸性
无数据资料

体外遗传毒性
无数据资料

体内基因毒性
无数据资料

STOT 评估 - 一次性接触
无数据资料

STOT 评估 - 重复性接触
无数据资料

吸入危害
无数据资料

附加信息
根据我们的经验和产品信息，该产品在正确操作时无有害影响。

第12部分: 生态学资料

该产品无可用的生态毒理学研究。

禁止排入下水道，废水或土壤中。

12.1 毒性

无数据资料

12.2 持久性和降解性

无数据资料

12.3 生物蓄积性

无数据资料

12.4 土壤中的迁移

无数据资料

12.5 PBT 和 vPvB 评估结果

无数据资料

12.6 其它不利的影响

本产品几乎不溶于水。 根据它的密度和水中的不溶性，预料该产品在正确使用时无生态问题。 该产品不易生物降解。

第13部分: 废弃注意事项

必需遵守适用的国际、国家和当地法规进行废弃。

13.1 废弃物处理方法

尽可能将容器倒空（例如经倾倒，刮擦或排干直至“滴干”）， 可根据化学工业现存的回收方案送往适当的收集点处理。 容器应按照国家法令和环境相关法规进行回收。

本产品适合回收再利用。经过适当处理后，可被再熔融，再加工成新的模制产品。 唯有依据材料本身的类型有选择的回收并仔细分选，才可以进行回收。

不能将废弃物通过废水排放。

第14部分: 运输信息

陆运

14.1 联合国编号或ID编号	:	非危险货物
14.2 联合国运输名称	:	非危险货物
14.3 运输危险级别	:	非危险货物
14.4 包装类别	:	非危险货物
14.5 环境危险	:	非危险货物

IATA

14.1 联合国编号或ID编号	:	非危险货物
14.2 联合国运输名称	:	非危险货物
14.3 运输危险级别	:	非危险货物
14.4 包装类别	:	非危险货物
14.5 环境危险	:	非危险货物

IMDG

14.1 联合国编号或ID编号	:	非危险货物
14.2 联合国运输名称	:	非危险货物
14.3 运输危险级别	:	非危险货物
14.4 包装类别	:	非危险货物
14.5 海洋污染物（是/否）	:	非危险货物

14.6 特殊防范措施

参见第 6 - 8 节

附加信息 : 非危险货物。 保持干燥。

14.7 根据国际海事组织文书进行的海上散装运输

我们不批量运输产品。

第15部分: 法规信息

15.1 物质或混合物的相关安全、健康和环保法律法规

职业病防治法: 参考第8章节
危险化学品安全使用许可证实施办法: 请按规定遵守
高毒物品目录: 不适用
重点监管的危险化学品名录：不适用
中国严格限制的有毒化学品名录：不适用
危险化学品目录（列入/满足70%原则）：不适用
危险化学品重大危险源辨识（GB 18218）：不适用
中国现有化学物质名录: 已列入或豁免
剧毒化学品: 产品不属于剧毒化学品
易制爆危险化学品名录（2017年版）：产品不属于易制爆危险化学品
易制毒化学品进出口管理规定: 产品不适用《易制毒化学品进出口管理规定》

其它的规定
符合下列法规要求：
危险化学品安全管理条例 国务院令第591号
GB/T 16483 化学品安全技术说明书 内容和项目顺序
GB 30000.1 化学品分类和标签规范 通则
GB 30000.2-29 化学品分类和标签规范
GB 15258 化学品安全标签编写规定

第16部分：其他信息

第 2、3 和 10 部分中提及的 GHS分类的危险性说明的全文。

H220	极易燃烧的气体
H225	高度易燃液体和蒸气。
H226	易燃液体和蒸气。
H301	吞咽会中毒。
H304	吞咽及进入呼吸道可能致命。
H311	皮肤接触会中毒。
H314	造成严重皮肤灼伤和眼损伤。
H315	造成皮肤刺激。
H317	可能造成皮肤过敏反应。
H318	造成严重眼损伤。
H319	造成严重眼刺激。
H331	吸入会中毒。
H332	吸入有害。
H335	可能造成呼吸道刺激。
H340	可能造成遗传性缺陷。
H341	怀疑可造成遗传性缺陷。
H350	可能致癌。
H351	怀疑致癌。
H361	怀疑对生育能力或胎儿造成伤害。
H361d	怀疑伤害胎儿。
H361f	怀疑对生育能力造成伤害。
H372	长期吸入或反复接触会对器官造成损害。
H373	长期或重复吸入，可能对器官造成损害。
H400	对水生生物毒性极大。
H401	对水生生物有毒。
H410	对水生生物毒性极大并具有长期持续影响。
H411	对水生生物有毒并具有长期持续影响。
H412	对水生生物有害并具有长期持续影响。

补充信息
根据我们的知识和信息，此安全技术说明书提供的信息在其发布之日是正确的，所给出的信息仅作为安全操作、使用、处理、储存、运输和废弃等的指导，而不能被认为是担保或质量指标。此信息仅适用于指定的产品，对于本产品与其它物质的混合或与任何过程的结合不适用，除非特别指明。

海 睿 企 業 有 限 公 司
HAI-RUEI INDUSTRIAL CO., LTD.

產品說明 PRODUCTDATA SHEET

色號 COLOUR：5816

塗料組成 Paint Composition

1.壓克力丙稀酸樹脂 Acrylic Resin	
2.顏料 Pigment	
3.添加劑 Additive	
3.溶劑 Solvent	
● 不揮發成份 Non-Volatile%	40% About-mentioned
● 成品黏度 Viscosity	100Sec ↑ NK-2 Iwata cup at 25℃
● 儲存時間 Shelf Life	3 Months

應用特性 APPLICATION CEARACTERISTICS

適用素材 Substrates	ABS+PC、ABS Plastic
適用塗裝方式 Application Method	Air spray
配套硬化劑 Hardener	
配套稀釋劑 Thinner	TA-5011
混合比例 Mixing Ratio	1：1.3
噴塗黏度 Application Viscosity	10~15Sec.(NK-2 Iwata cup at 25℃)
乾燥條件 Curing Temperature	Setting for 5 minutes then enforce drying for 30 minutes at 60℃ is recommended. Then takes another 7 days at 25℃ to gain a complete harden result.

塗膜測試 FILM TEST

項目 TEST ITEM	**測試方法 TEST METHOD**	**RESULT**
膜厚 Dry Film Thickness	Erichsen Film Gauge	15μ↑
光澤 Gloss	60° Mirror Refector	16°±3
密著 Adhesion	1mm hatch cutting scotch tape test	4B~5B
硬度 Hardness	Mitsubishi Uni pencil with 0.5kg/Loading	F~H
耐酒精 Alcohol Resistance Test	Loading 500g Rubbing test 50 times	Not see base
耐磨 Abrasion Resistance Test	Film 15μ↑,EF-74 Eraser / Loading 500g Rubbing test 50 times/ 30 cycles/min	Not see base

HAI-RUEI INDUSTRIAL CO., LTD.
Tel:(02)2268-5828 Fax:(02)2268-5685

安全資料表

一、化學品與廠商資料

化學品名稱：單液型塗料
其他名稱：5816
建議用途及限制使用： ABS、PC、ABS+PC 塑膠之表面塗裝。
製造商或供應商名稱、地址及電話：海睿企業有限公司 新北市土城區勝利街 10 巷 8 號 3 樓 (02)2268-5828
緊急聯絡電話/傳真電話：(02)22685828／(02)22685685

二、危害辨識資料

化學品危害分類：易燃液體第 2 級、急毒性物質第 4 級（吞食）、腐蝕/刺激皮膚物質第 2 級、嚴重損傷/刺激眼睛物質第 2 級、特定標的器官系統毒性物質~重覆暴露第 2 級、吸入性危害物質第 1 級、水環境之危害物質（急毒性）第 3 級
標示內容：  象徵符號：火焰、健康危害、驚嘆號 警示語：危險 危害警告訊息： 高度易燃液體和蒸氣 吞食有害 造成皮膚刺激 造成眼睛刺激 長期或重覆暴露可能會對器官造成傷害 對水生生物有害 如果吞食並進入呼吸道可能致命 危害防範措施： 緊蓋容器 遠離引火源－禁止抽煙 置容器於通風良好的地方 戴上合適的手套 衣服一經污染，立即脫掉 戴眼罩／護面罩 若與眼睛接觸，立刻以大量的水清洗後送醫診療 使用時勿吃、喝 不得誘導嘔吐 避免釋放至境中
其他危害：－

三、成份辨識資料

混合物：

化學性質：		
危害物質成分之中英文名稱	濃度或濃度範圍(成分百分比）	化學文摘社登記號碼（CAS NO.）

安全資料表

合成樹脂	37~43%	25608-33-7
色料-黑	8~12%	1333-86-4
醋酸丙二醇甲醚酯	27~32%	108-65-6
乙二醇丁醚	18~23%	111-76-2

四、**急救措施**

不同暴露途徑之急救方法：

吸　　入：1.施救前先做好自身的防護措施，以確保自己的安全。
2.移走污染源或將患者移至新鮮空氣處。
3.若呼吸停止立即由受訓過的人施以人工呼吸，若心跳停止施行心肺復甦術。
4.立即就醫。

皮膚接觸：1.立即緩和的刷掉或吸掉多餘的化學品。
2.用水和非磨砂性肥皂徹底但緩和的清洗20分鐘或真到化學品除去。
3.沖水時脫掉受污染的衣服、鞋子以及皮飾品(如手錶、皮帶)。
4.若沖洗後仍有刺激感，立即就醫
5.須將污染的衣物、鞋子以及皮飾品完全除污後再使用或丟棄。

眼睛接觸：1.立即緩和的刷掉或吸掉多餘的化學品。
2.立即將眼皮撐開，用緩和流動的溫水沖洗污染的眼睛20分鐘。
3.小心不要讓清洗的污水流入未受影響的眼睛。
4.立即就醫。

食　　入：1.若患者即將喪失意識、已失去意識或痙攣，不可經口餵食任何東西。
2.若患者意識清楚，讓其用水徹底漱口。
3.不可催吐。
4.給患者喝下240-300 毫升的水。
5.若患者自發性的嘔吐，讓其身體向前傾以減低吸入危險，並讓其漱口及反覆給水。
6.立即就醫。

最重要症狀及危害效應：蒸氣可能造成頭痛、疲勞、流淚、暈眩、眼花、麻木、噁心，抑制中樞神經系統。

對急救人員之防護：應穿著 C 級防護裝備在安全區實施急救。

對醫師之提示：依症狀處理

五、滅火措施

適用滅火劑：化學乾粉、二氧化碳、聚合泡沫、水霧

滅火時可能遭遇之特殊危害：**1.**其蒸氣和液體易燃，液體會累積電荷，蒸氣比空氣重會傳播至遠處，遇火源可能造成回火。
2.高溫會分解產生毒氣，火場中的容器可能會破裂、爆炸。

特殊滅火程序：1.撤退並自安全距離或受保護的地點滅火。
2.位於上風處以避免危險的蒸氣和有毒的分解物。
3.滅火前先阻止溢漏，如果不能阻止溢漏且周圍無任何危險， 讓火燒完， 若沒有阻止溢漏而先行滅火，蒸氣會與空氣形成爆炸性混合物而再引燃。
4.隔離未著火物質且保護人員。
5.安全情況下將容器搬離火場。
6.以水霧冷卻暴露火場的貯槽或容器。
7.以水霧滅火可能無效，除非消防人員受過各種易燃液體之滅火訓練。
8.如果溢漏未引燃，噴水霧以分散蒸氣並保護試圖止漏的人員。
9.以水柱滅火無效。
10.大區域之大型火災，使用無人操作之水霧控制架或自動搖擺消防水瞄。

11.儘可能撤離火場並允許火燒完。 12.遠離貯槽。 13.貯槽安全閥已響起或因著火而變色時立即撤離。 14.未著特殊防護設備的人員不可進入。
消防人員之特殊防護裝備：消防人員必須配戴空氣呼吸器、消防衣及防護手套。

六、洩漏處理方法

個人應注意事項：1.在污染區尚未完全清理乾淨前，限制人員接近該區。 2.確定清理工作是由受過訓練的人員負責。 3.穿戴適當的個人防護裝備。
環境注意事項：1.對洩漏區域進行通風換氣。 2.撲滅或除去所有發火源。 3.通知政府安全衛生與環保相關單位。 4.避免外洩物進入下水道或密閉的空間內。
清理方法：1.不要碰觸外洩物。 2.在安全許可的情形下，設法阻止或減少溢漏。 3.用不會和外洩物反應的泥土、沙或類似穩定且不可燃的物質圍堵外洩物。 4.少量溢漏時，用不會和外洩物反應之吸收劑吸收。已污染的吸收劑和外洩物具有同樣的危害性，須置於加蓋並標示的適當容器裡，用水沖洗溢漏區域。 5.大量溢漏時：連絡消防、緊急處理單位及供應商以尋求協助。

七、安全處置與儲存方法

處置：1.此物質是易燃性和毒性液體，處置時工程控制應運轉及善用個人防護設備；工作人員應受適當有關物質之危險性及安全使用法之訓練。 2.除去所有發火源並遠離熱及不相容物。 3.工作區應有“ 禁止抽煙”標誌。 4.液體會累積電荷，考慮額外之設計以增加電導性。如所有桶槽、轉裝容器和管線都要接地，接地時必須接觸到裸金屬，輸送操作中，應降低流速，增加操作時間，增加液體留在管線中之時間或低溫操作。 5.當調配之操作不是在密閉系統進行時，確保調配的容器和接收的輸送設備和容器要等電位連接。 6.空的桶槽、容器和管線可能仍有具危害性的殘留物，未清理前不得從事任何焊接、切割、鑽孔或其它熱的工作進行。 7.桶槽或貯存容器可充填惰性氣體以減少火災和爆炸的危險。 8.作業場所使用不產生火花的通風系統，設備應為防爆型。 9.保持走道和出口暢通無阻。 10.貯存區和大量操作的區域，考慮安裝溢漏和火災偵測系統及適當的自動消防系統或足夠且可用的緊急處理裝備。 11.作業避免產生霧滴或蒸氣，在通風良好的指定區內操作並採最小使用量，操作區與貯存區分開。 12.必要時穿戴適當的個人防護設備以避免與此化學品或受污染的設備接觸。 13.不要與不相容物一起使用(如強氧化劑) 以免增加火災和爆炸的危險。 14.使用相容物質製成的貯存容器，分裝時小心不要噴灑出來。 15.不要以空氣或惰性氣體將液體自容器中加壓而輸送出來。 16.除非調配區以耐火結構隔離，否則不要在貯存區進行調配工作。 17.使用經認可的易燃性液體貯存容器和調配設備。 18.不要將受污染的液體倒回原貯存容器。 19.容器要標示，不使用時保持緊密並避免受損。

儲存：1.貯存在陰涼、乾燥、通風良好以及陽光無法直接照射的地方，遠離熱源、發火源及不相容物。
2.貯存設備應以耐火材料構築。
3.地板應以不滲透性材料構築以免自地板吸收。
4.門口設斜坡或門檻或挖溝槽使洩漏物可排放至安全的地方。
5.貯存區應標示清楚，無障礙物，並允許指定或受過訓的人員進入。
6.貯存區與工作區應分開；遠離升降機、建築物、房間出口或主要通道貯存。
7.貯存區附近應有適當的滅火器和清理溢漏設備。
8.定期檢查貯存容器是否破損或溢漏。
9.檢查所有新進容器是否適當標示並無破損。
10.限量貯存。
11.以相容物質製成的貯存容器裝溢漏物。
12.貯桶接地並與其它設備等電位連接。
13.貯存易燃液體的所有桶子應安裝釋壓閥和真空釋放閥。
14.依化學品製造商或供應商所建議之貯存溫度貯存，必要時可安裝偵溫警報器，以警示溫度是否過高或過低。
15.避免大量貯存於室內，儘可能貯存於隔離的防火建築。
16.貯槽之排氣管應加裝滅焰器。
17.貯槽須為地面貯槽，底部整個區域應封住以防滲漏，周圍須有能圍堵整個容量之防溢堤。

八、暴露預防措施

工程控制：1.單獨使用不產生火花、接地的通風系統。
2.排氣口直接通到室外，並採取保護環境的重要措施。
3.大量使用此物質時，可能需要局部排氣裝置和製程密閉。
4.供給充份新鮮空氣以補充排氣系統抽出的空氣。

控制參數

項目 / 名稱	八小時日時量平均容許濃度 TWA	短時間時量平均容許濃度 STEL	最高容許濃度 CEILING	生物指標 BEI
醋酸丙二醇甲醚酯	-	-	-	-
乙二醇丁醚	25ppm	37.5ppm	–	-

個人防護設備：
眼睛防護：使用安全眼罩或面罩，不可配戴隱形眼鏡。
呼吸防護：1.500ppm以下：含有機蒸氣濾罐之化學濾罐式、動力型空氣淨化式、供氣式、自攜式呼吸防護具。
2.未知濃度：正壓自攜式呼吸防護具、正壓全面型供氣式呼吸防護具輔以正壓自攜式呼吸防護具。
3.逃生：含有機蒸氣濾罐之氣體面罩、逃生型自攜式呼吸防護具。
手部防護：防滲手套材質以聚氯乙烯、Teflon、Viton、4H、Barricade、Responder等為佳。
皮膚及身體防護：**1.**連身式防護衣。**2.**工作鞋。**3.**工作區要有淋浴/ 沖眼設備。

衛生措施：1.工作後儘速脫掉污染之衣物，洗淨後才可再穿戴或丟棄，且須告知洗衣人員污染物之危害性。
2.工作場所嚴禁抽煙或飲食。
3.處理此物後，須徹底洗手。
4.維持作業場所清潔。

安全資料表

九、物理及化學性質

外觀：-	氣味：溫和
嗅覺閾值：-	熔點：-
pH 值：-	沸點/沸點範圍：146 ℃
易燃性(固體,氣體) ：-	閃火點：42℃ 測試方法：閉杯
分解溫度：-	
自燃溫度：354℃	爆炸界限 1.5%~7.0%
蒸氣壓：3.8 mmHg@25℃	蒸氣密度：4.6 (空氣=1)
密度：0.966 (水=1)	溶解度：與水的溶解度為 18.5%，可溶於有機溶液
辛醇／水分配係數(log Kow)：-	揮發速率：0.39 (丁基醋酸=1)

十、安定性及反應性

安定性：正常狀況下安定

特殊狀況下可能之危害反應：1.強氧化劑：增加火災和爆炸的危險。
2.甲苯和四氧化二氮的混合物：可能被不純物起始爆炸。
3.硝酸：含硫酸的情況下會起激烈反應。
4.硫酸：放熱反應。
5.過氯酸鹽：形成爆炸性的混合物。
6.二氯化硫：激烈反應，鐵或氯化鐵會加速反應進行。
7.4硝基甲烷：形成敏感、易爆炸混合物。
8.六氟化鈾：激烈反應。

應避免之狀況：靜電、火焰、火花、熱及引火源。

應避免之物質：強氧化劑、四氧化二氮、硝酸、硫酸、過氯酸鹽、二氯化硫、4 硝基甲烷、六氟化鈾

危害分解物： －

十一、毒性資料

暴露途徑：皮膚、吸入、食入、眼睛

症狀：刺激、昏睡、頭痛、疲勞、暈眩、眼花、麻木、嘔吐、食慾不振、痢疾、噁心、精神混亂、動作不協調、抑制中樞神經系統、無意識、皮膚炎。

急毒性：吸入：蒸氣濃度約50ppm：輕微嗜睡和頭痛；50-100ppm：刺激鼻子、喉嚨和呼吸道；約100ppm：引起疲勞和暈眩；超過200ppm：引起之症狀與酒醉類似，眼花、麻木和輕微噁心；超過500ppm引起精神混亂和不協調；更高濃度(約10000ppm) 則更進一步抑制中樞神經系統，會導致無意識和死亡；更嚴重暴露可能引起腎臟衰竭。

皮膚：接觸初期可能引起溫和的刺激，長期接觸可能導致皮膚炎(皮膚乾、紅)。

眼睛：短暫(3-5分鐘) 暴露於300ppm蒸氣或長時間(6-7 小時) 暴露於100ppm皆會引起輕微刺激，更高濃度會造成眼睛充血及流淚，測到所引起的眼睛刺激於48小時內會康復。

食入：1.自食入而吸收，產生抑制中樞神經，症狀如吸入所述。
2.可能引起吸入，那是食入或嘔吐時將物質吸入肺部，可能導致肺部刺激，肺部組織受損和死亡。

LD50(測試動物、暴露途徑)：<870 mg/kg(大鼠，吞食)

LC50(測試動物、暴露途徑)：6000 ppm/6H(大鼠，吸入)

慢毒性或長期毒性：1.神經系統：慢性中樞神經系統受損，記憶力喪失、睡眠不安、意志力不集中和動作不協調。
2.長期暴露可能影響聽力。
3.長期暴露於200ppm以下無明顯腎臟受損；500ppm以下無肝臟影響。
4.引起皮膚炎(皮膚紅、癢、乾燥)。
1500mg/m3/24H(懷孕1-8天的雌鼠，吸入) 造成胚胎中毒及不正常發育
IARC將之列為Group 3：無法判斷為人體致癌性。

十二、生態資料

生態毒性：LC50（魚類）：7.3-1840mg/1/96H
EC50（水生無脊椎動物）：－
生物濃縮係數（BCF）：1.67-380

持久性及降解性：
1.當甲苯釋放至空氣中後，可經與光化作用產生氫氧基反應而快速地分解掉。
2.其半衰期範圍可由三小時至一天不等。但此物質一經雨水沖洗即可被清除。
3.在各種不同的標準生物分解性試驗中發現，甲苯可以很快地被分解。
4.甲苯在魚體及水中的無脊椎動物體內無明顯的生物濃縮作用。
5.在工業化學中的生化需氧量(BOD)為2.06，而化學需氧量(BOD)為2.16，理論上分解1.8%需半天，而12%則需5半天。
半衰期（空氣） ：4.6-468小時
半衰期（水表面）：24~528小時
半衰期（地下水）：48~672小時
半衰期（土壤） ：45.5~168024小時

生物蓄積性：在大鼠實驗中，吸入300ppm 後，其體內並無蓄積性。

土壤中之流動性：-

其他不良效應：-

十三、廢棄處理方法

廢棄處理方法：
1.參考相關法規處理
2.依照倉儲條件貯存待處理的廢棄物。
3.可採用特定的焚化或衛生掩埋法處理。

十四、運送資料

聯合國編號：1263

聯合國運輸名稱：可燃性液體塗料

運輸危害分類：第三類易燃液體

包裝類別：III

海洋污染物（是／否）：否

特殊運送方法及注意事項：-

十五、法規資料

適用法規：
1.勞工安全衛生設備規則　　2.危險物與有害物標示及通識規則
3.有機溶劑中毒預防規則　　4.勞工作業環境空氣中有害物容許濃度標準
5.道路交通安全規則　　6.事業廢棄物貯存清除處理方法及設施標準
7.公共危險物品及可燃性高壓氣體設置標準暨安全管理辦法　8.毒性物質管理法

十六、其他資料

安全資料表

參考文獻	1.行政院衛福部，〝中美合作計畫「中文毒理清冊」〞，中華民國 86 年 3 月 2.行政院環保署，中文毒理資理庫 3.行政院環保署，毒性化學物質災害防救手冊，103 年 11 月 4.工業技術研究院工業安全衛生技術發展中心，物質安全資料表光碟資料 5.Handbook of Toxic and Hazardous Chemicals and Carcinogens 6.HSDB 資料庫，TOMES PLUS，2015 網頁版 7.行政院勞動部，化學品全球調和制度 [GHS] 介紹網站 8.中國國家標準 CNS15030「化學品分類及標示」 9.中國國家標準 CNS6864「危險物運輸標示」 10.UN Recommendations on the Transport of Dangerous Goods. Model Regulations. Rev.16 (2009) 11.ChemWatch 資料庫，2015 網頁版 12.緊急應變指南 2012 年版 13.IARC WEB	
製表者單位	名稱：海睿企業有限公司	
	地址/電話：新北市土城區勝利街 10 巷 8 號 3 樓　TEL：(02)22685828	
製表人	職稱：廠長	姓名(簽章)：陳清和
製表日期	中華民國一一二年十月三十一日	
備註	1.上述資料中心符號”－”代表目前查無相關資料。 2.上述資料已力求正確，但錯誤恐仍難免，各項數據與資料僅供參考，使用者請依應用需求，自行負責判斷其可用性，使用者應自行負責其安全。	

測試報告
Test Report

進泰塗料有限公司 (JINN TAY PAINTING CO., LTD.)
新北市樹林區三俊街148號 (NO. 148, SAN CHUN ST., SHULIN DISTRICT, NEW TAIPEI CITY, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as)：

送樣廠商(Sample Submitted By) ： 進泰塗料有限公司 (JINN TAY PAINTING CO., LTD.)
樣品名稱(Sample Name) ： 客戶自行調配之樣品:塗料

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收件日(Sample Receiving Date) ： 15-Sep-2025
測試期間(Testing Period) ： 15-Sep-2025 to 22-Sep-2025

測試需求(Test Requested) ： 依據客戶要求，進行高關注物質(SVHC)篩檢。(As requested by client, SVHC Screening was performed.)

測試結果(Test Results) ： 請參閱下一頁 (Please refer to following pages).

Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

PIN CODE: 049F42E8

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測試報告
Test Report

進泰塗料有限公司 (JINN TAY PAINTING CO., LTD.)
新北市樹林區三俊街148號 (NO. 148, SAN CHUN ST., SHULIN DISTRICT, NEW TAIPEI CITY, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 黑色液體(客戶自行調配之樣品) (BLACK LIQUID (SAMPLE IS BLENDED BY CLIENT))

測試方法(Test Method)

參考RSTS-EE-SVHC-007，以感應耦合電漿發射光譜儀、紫外光-可見光分光光度計、氣相層析儀/質譜儀、液相層析儀/質譜儀、氣相層析儀/火焰光度偵測器、液相層析儀/二極體陣列偵測器、液相層析串聯質譜儀、離子層析儀分析。(With reference to RSTS-EE-SVHC-007, analysis was performed by ICP-OES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/DAD, LC/MS/MS, IC.)

測試結果 (Test Results) **單位 (Unit): %**

高關注物質(SVHC)候選清單 Candidate List of SVHC

物質名稱 (Substance Name)	RL	結果 (Result)
		No.1
乙二醇乙醚醋酸酯 (2-Ethoxyethyl acetate) (CAS No.: 111-15-9)	0.05	0.826
其他高關注物質(SVHC)候選清單測試 (Other tested SVHC in candidate list)	-	n.d.

Remark：

1. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：

   (a) 成品中所含物質每年超過1公噸。
   (b) 依重量百分比計算，物質濃度超過0.1%。

   In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

   if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

2. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%，應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。

   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

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3. 如果樣品中高關注物質的濃度超過0.1% (w/w)和/或歐盟(EC)No.1272/2008 CLP法規及其修訂中設定的特殊濃度限值，建議客戶根據歐盟REACH法規No.1907/2006對有關高關注物質準備安全資料表(SDS)以符合供應鏈通信的義務，如：
(I) 根據(EC)No.1272/2008 CLP法規被列為有害物質。
(II) 根據(EC)No.1272/2008 CLP法規被列為有害混合物，而當中物質的濃度大於或等於(EC)No.1272/2008 CLP法規列出的濃度限值;或
(III) 根據(EC)No.1272/2008 CLP法規並未列為有害混合物，但包含：
(a) 對人類健康或環境有害的物質，而在固體或液體混合物(即非氣體混合物)中其濃度≥1%(w/w)或在氣體混合物中占體積≥0.2%，或
(b) PBT或vPvB物質，在固體或液體混合物(即非氣體混合物)中個別濃度≥0.1%(w/w)，或
(c) 授權審議的高關注物質候選清單上的物質(除上述以外的原因)在個別非氣體混合物中的濃度≥0.1%(w/w)，或
(d) 設有歐洲範圍內工作場所接觸限值的物質。

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

(I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
(II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
(III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or
(d) a substance for which there are Europe-wide workplace exposure limits

4. 倘若SVHC超出報告極限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。
If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

備註(Note)：

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. RL = Reporting Limit (報告極限值)
3. n.d. = Not Detected (未檢出)；小於RL (Less than RL)
4. "-" = Not Regulated (無規格值)
5. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1375
(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1375)
6. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來。(The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.)

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7. ***: 該物質是由單辛基錫、二辛基錫、三丁基錫、二丁基錫、全氟辛酸或各別元素 (例如：砷、鉛、六價鉻、硼、鈷、鋇、鎘、硫)之測試結果計算得知。(The substance was calculated by the test results of Monooctyl Tin, Dioctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium, Sulfur respectively).)

表格 (Table) 1：測試結果如下(The test result is given as): **單位(Unit): %**

物質名稱 / 特定元素 (Substance Name / Specific Element(s))	RL	結果 (Result)
		No.1
三丁基錫 (Tributyl Tin) (TBT)	0.0487	n.d.
砷 (Arsenic) (As) (※ E)	0.005	n.d.
六價鉻 (Hexavalent chromium) (Cr(VI))	0.005	n.d.
硼 (Boron) (B) (※ E)	0.005	n.d.
鈷 (Cobalt) (Co)	0.005	n.d.
二丁基錫 (Dibutyl Tin) (DBT)	0.027	n.d.
鋇 (Barium) (Ba)	0.005	n.d.
二辛基錫 (Dioctyl Tin) (DOT)	0.023	n.d.
單辛基錫 (Monooctyl Tin) (MOT)	0.0138	n.d.
鉛 (Lead) (Pb)	0.005	n.d.
鎘 (Cadmium) (Cd)	0.005	n.d.
硫 (Sulfur) (S) (※ E)	0.005	n.d.

8. F參數換算表&分類 (F Parameter Conversion Table & Classification): https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others
9. (※ P): 此化合物之濃度是取六價鉻及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。(Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
10. (※ C): 鉻酸與重鉻酸的寡聚體: 因為其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較為重要並應被考慮。(Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.)
11. (※ H): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作為代表(歐洲化學總署回信編號 Ref no.: INC 000000032519)。(Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).)

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12. (※ S): 此砷鉛化合物之濃度是取砷及鉛兩者各別換算出砷鉛化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
13. (※ T): 由於TGIC本身含有β-TGIC，依照ECHA 技術文件 β-TGIC與 TGIC 約為 1:10 比例，因此β-TGIC將以1/10 的TGIC計算濃度。(TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.)
14. (※ B): 只有在矽與鉛定性結果為陽性時，再以鋇之濃度換算之。(Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.)
15. (※ R): RP-HP無法直接測得且無法自特定元素計算含量，RP-HP之所以被定義於SVHC是因為4-HPbl，因此分析4-HPbl取代RP-HP。(RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPbl, therefore 4-HPbl is analysed instead of RP-HP.)
16. (●) : 因為鉛有一很廣泛應用，不太可能判定是否檢驗出的鉛是來自鉛離子，鉛元素或鉛化合物，因此用檢驗出的總鉛來代表鉛。(Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/ and lead compounds. Therefore the detected total lead is used on behalf of lead.)
17. (※ U): 硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉鹽; 硼酸鈉; 硼酸鈉鹽 (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0)，依據其中最大分子量的硼酸鈉鹽 (CAS No.: 13840-56-7)進行計算，其F參數為11.8215。(Boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Orthoboric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0). The calculation is based on the largest molecular weight of Orthoboric acid, sodium salt (CAS No.: 13840-56-7). The F Parameter is 11.8215.)
18. (※ D): 此化合物之濃度是取硼及鉛兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and lead, lead and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
19. (※ G): 此化合物先定性初篩，當該化合物有訊號，再利用特定元素硫及磷計算化合物濃度。
(The compound is qualitatively screened first. When there is a signal of the compound, specific elements Sulfur and Phosphorus are used to calculate the concentration of compound.)
20. (※ I): 先對特定指標化合物進行初篩，再經評估後，如有特定訊號時，實驗室需加測總氟來計算化合物濃度。
(A specific index compound is qualitatively screened first. After the evaluation, and the specific signal is positive, the total Fluorine is used to calculate the concentration of SVHC compound.)
21. (※ A): 此化合物之濃度是取硼及鋇兩者各別換算出化合物濃度，並取其最小值做為最後出報告之依據。
(Regarding the compound containing Boron and Barium, Barium and Boron are tested and respectively used for the calculation of the independent concentration of the compound containing Boron and Barium. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)
22. (※ E): 被萃取出的溶出硼/砷/硫是以感應耦合電漿發射光譜儀檢測得之。(The extracted soluble Boron / Arsenic / Sulfur are detected by ICP-OES.)

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23. (※ J): 活性棕 51為利用水萃取法進行初篩，若符合特定條件，再以溶出硫濃度進行換算。
(Reactive brown 51 is qualitatively screened first by water extraction. After the evaluation, and there is a signal of the compound, the extracted soluble sulfur is used to calculate the concentration of SVHC compound.)

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【附錄 (Appendix) 1】

高關注物質(SVHC)候選清單 Candidate List of SVHC : **單位 (Unit): %**

No.	物質名稱 (Substance Name)	RL
1.	4,4' - 二氨基二苯甲烷 (4,4'- Diaminodiphenylmethane) (MDA) (CAS No.: 101-77-9)	0.05
2.	二甲苯麝香 (5-tert-butyl-2,4,6-trinitro-m-xylene) (Musk Xylene) (CAS No.: 81-15-2)	0.05
3.	短鏈氯化石蠟 (Alkanes, C10-13, chloro) (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05
4.	蒽 (Anthracene) (CAS No.: 120-12-7)	0.05
5.	鄰苯二甲酸丁苯甲酯 (Benzyl butyl phthalate) (BBP) (CAS No.: 85-68-7)	0.05
6.	氧化雙三丁基錫 (Bis(tributyltin) oxide) (TBTO)*** (CAS No.: 56-35-9)	-
7.	五氧化二砷 (Diarsenic pentaoxide)*** (CAS No.: 1303-28-2)	-
8.	三氧化二砷 (Diarsenic trioxide)*** (CAS No.: 1327-53-3)	-
9.	鄰苯二甲酸二丁酯 (Dibutyl phthalate) (DBP) (CAS No.: 84-74-2)	0.05
10.	六溴環十二烷及所有主要被辨別出的異構物 (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	0.05
11.	砷酸氫鉛 (Lead hydrogen arsenate)*** (CAS No.: 7784-40-9) (※ S)	-
12.	重鉻酸鈉 (Sodium dichromate)*** (CAS No.: 10588-01-9, 7789-12-0) (*)	-
13.	三乙基砷酸酯 (Triethyl arsenate)*** (CAS No.: 15606-95-8)	-
14.	鄰苯二甲酸二 (2-乙基己基)酯 (Bis (2-ethylhexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	0.05
15.	2,4-二硝基甲苯 (2,4-Dinitrotoluene) (CAS No.: 121-14-2)	0.05
16.	蒽油 (Anthracene oil) (CAS No.: 90640-80-5) (**)	0.05
17.	蒽油, 蒽糊 (Anthracene oil, anthracene paste) (CAS No.: 90640-81-6) (**)	0.05
18.	蒽油, 蒽糊, 蒽餾分 (Anthracene oil, anthracene paste, anthracene fraction) (CAS No.: 91995-15-2) (**)	0.05
19.	蒽油, 蒽糊, 輕油 (Anthracene oil, anthracene paste, distn. Lights) (CAS No.: 91995-17-4) (**)	0.05
20.	蒽油, 含蒽量少 (Anthracene oil, anthracene-low) (CAS No.: 90640-82-7) (**)	0.05
21.	鄰苯二甲酸二異丁酯 (Diisobutyl phthalate) (DIBP) (CAS No.: 84-69-5)	0.05
22.	鉻酸鉛 (Lead chromate)*** (CAS No.: 7758-97-6) (※ P)	-
23.	鉬鉻紅；顏色索引: 顏料紅104 (Lead chromate molybdate sulphate red (C.I. Pigment Red 104))*** (CAS No.: 12656-85-8) (※ P)	-
24.	鉻酸鉛；顏色索引: 顏料黃34 (Lead sulfochromate yellow (C.I. Pigment Yellow 34))*** (CAS No.: 1344-37-2) (※ P)	-
25.	煤瀝青, 高溫 (Pitch, coal tar, high-temp.) (CAS No.: 65996-93-2) (**)	0.05
26.	磷酸三(2-氯乙基)酯 (Tris(2-chloroethyl) phosphate) (TCEP) (CAS No.: 115-96-8)	0.05
27.	丙烯醯胺 (Acrylamide) (CAS No.: 79-06-1)	0.05

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No.	物質名稱 (Substance Name)	RL
28.	重鉻酸銨 (Ammonium dichromate)*** (CAS No.: 7789-09-5)	-
29.	硼酸 (Boric acid)*** (CAS No.: 10043-35-3, 11113-50-1)	-
30.	無水四硼酸二鈉 (Disodium tetraborate, anhydrous)*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-
31.	鉻酸鉀 (Potassium chromate)*** (CAS No.: 7789-00-6)	-
32.	重鉻酸鉀 (Potassium dichromate)*** (CAS No.: 7778-50-9)	-
33.	鉻酸鈉 (Sodium chromate)*** (CAS No.: 7775-11-3)	-
34.	水合硼酸鈉 (Tetraboron disodium heptaoxide, hydrate) (CAS No.: 12267-73-1) (※ H)	-
35.	三氯乙烯 (Trichloroethylene) (CAS No.: 79-01-6)	0.05
36.	乙二醇乙醚 (2-Ethoxyethanol) (CAS No.: 110-80-5)	0.05
37.	乙二醇甲醚 (2-Methoxyethanol) (CAS No.: 109-86-4)	0.05
38.	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 (Acids generated from chromium trioxide and their oligomers: Chromic acid)*** (CAS No.: 7738-94-5)	-
	從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 (Acids generated from chromium trioxide and their oligomers: Dichromic acid)*** (CAS No.: 13530-68-2)	-
	從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 (Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid) (※ C)	-
39.	三氧化鉻 (Chromium trioxide)***(CAS No.: 1333-82-0)	-
40.	碳酸鈷(二價) (Cobalt(II) carbonate)*** (CAS No.: 513-79-1)	-
41.	醋酸鈷(二價) (Cobalt(II) diacetate)*** (CAS No.: 71-48-7)	-
42.	硝酸鈷(二價) (Cobalt(II) dinitrate)*** (CAS No.: 10141-05-6)	-
43.	硫酸鈷(二價) (Cobalt(II) sulphate)*** (CAS No.: 10124-43-3)	-
44.	1,2,3-三氯丙烷 (1,2,3-trichloropropane) (CAS No.: 96-18-4)	0.05
45.	鄰苯二甲酸二 (C6-8支鏈)烷基酯，富C7 (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (DIHP) (CAS No.: 71888-89-6)	0.05
46.	鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (DHNUP) (CAS No.: 68515-42-4)	0.05
47.	N-甲基吡咯烷酮 (1-Methyl-2-pyrrolidone) (NMP) (CAS No.: 872-50-4)	0.05
48.	乙二醇乙醚乙酸酯 (2-Ethoxyethyl acetate) (CAS No.: 111-15-9)	0.05
49.	聯氨 (Hydrazine) (CAS No.: 7803-57-8, 302-01-2)	0.05
50.	鉻酸鍶 (Strontium chromate)*** (CAS No.: 7789-06-2)	-
51.	二氯化鈷 (Cobalt dichloride) (CAS No.: 7646-79-9)	0.005
52.	1,2-二氯乙烷 (1,2-Dichloroethane) (CAS No.: 107-06-2)	0.05
53.	4,4'-亞甲雙 (2-氯苯胺) (2,2'-dichloro-4,4'-methylenedianiline) (CAS No.: 101-14-4)	0.05

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No.	物質名稱 (Substance Name)	RL
54.	鄰甲氧基苯胺 (2-Methoxyaniline, o-Anisidine) (CAS No.: 90-04-0)	0.05
55.	對特辛基苯酚 / 辛基酚 (4-(1,1,3,3-tetramethylbutyl)phenol) (CAS No.: 140-66-9)	0.05
56.	矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Aluminosilicate Refractory Ceramic Fibres【oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges】)	0.05
57.	砷酸 (Arsenic acid)*** (CAS No.: 7778-39-4)	-
58.	双(2-甲氧基乙基)醚 (Bis(2-methoxyethyl) ether) (CAS No.: 111-96-6)	0.05
59.	鄰苯二甲酸二甲氧基乙酯 (Bis(2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	0.05
60.	砷酸鈣 (Calcium arsenate)*** (CAS No.: 7778-44-1)	-
61.	鉻酸鉻 (Dichromium tris(chromate))*** (CAS No.: 24613-89-6)	-
62.	甲醛與苯胺的寡聚體 (Formaldehyde, oligomeric reaction products with aniline (technical MDA)) (CAS No.: 25214-70-4)	0.05
63.	疊氮化鉛 (Lead diazide, Lead azide)*** (CAS No.: 13424-46-9)	-
64.	苦味酸鉛 (Lead dipicrate)*** (CAS No.: 6477-64-1)	-
65.	中性斯蒂酚酸鉛 (Lead styphnate)*** (CAS No.: 15245-44-0)	-
66.	N,N-二甲基乙醯胺 (N,N-dimethylacetamide) (DMAC) (CAS No.: 127-19-5)	0.05
67.	八氫氧化五鉻酸鋅 (Pentazinc chromate octahydroxide)*** (CAS No.: 49663-84-5)	-
68.	酚酞 (Phenolphthalein) (CAS No.: 77-09-8)	0.05
69.	氫氧化鉻酸鋅鉀 (Potassium hydroxyoctaoxodizincatedichromate)*** (CAS No.: 11103-86-9)	-
70.	砷酸鉛 (Trilead diarsenate)*** (CAS No.: 3687-31-8) (※ S)	-
71.	鋯矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) (Zirconia Aluminosilicate Refractory Ceramic Fibres【oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges】)	0.05
72.	鹼性藍 26 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 2580-56-5)	0.05
73.	鹼性紫 3 [內含≥ 0.1% 的米氏酮或米氏鹼] ([4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 548-62-9)	0.05
74.	三甘醇二甲醚 (1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)) (CAS No.: 112-49-2)	0.05
75.	乙二醇二甲醚 (1, 2-dimethoxyethane; ethylene glycol dimethyl ether) (EGDME) (CAS No.: 110-71-4)	0.05
76.	異氰尿酸三縮水甘油酯 (1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione) (TGIC) (CAS No.: 2451-62-9)	0.05

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No.	物質名稱 (Substance Name)	RL
77.	異氰尿酸β-三縮水甘油酯 (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) (β-TGIC) (CAS No.: 59653-74-6) (※ T)	0.05
78.	α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 [内含≥ 0.1% 的米氏酮或米氏鹼] (4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol) [with ≥ 0.1% of Michler's ketone or Michler's base] (CAS No.: 561-41-1)	0.05
79.	4,4'-二(N,N-二甲氨基)二苯甲酮 (米氏酮) (4,4'-bis(dimethylamino)benzophenone (Michler’ s ketone)) (CAS No.: 90-94-8)	0.05
80.	三氧化二硼 (Diboron trioxide)*** (CAS No.: 1303-86-2)	-
81.	甲醯胺 (Formamide) (CAS No.: 75-12-7)	0.05
82.	甲基磺酸鉛 (Lead(II) bis(methanesulfonate))*** (CAS No.: 17570-76-2)	-
83.	4,4'-(对二甲氨基)二苯基甲烷 (米氏鹼) (N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)) (CAS No.: 101-61-1)	0.05
84.	溶劑藍 4 [内含≥ 0.1% 的米氏酮或米氏鹼] (α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone or Michler's base]) (CAS No.: 6786-83-0)	0.05
85.	[1,2-苯二羧酸根合]二氧化三鉛 ([Phthalato(2-)]dioxotrilead)*** (CAS No.: 69011-06-9)	-
86.	支鏈和直鏈1,2-苯二羧二戊酯 (1,2-Benzenedicarboxylic acid, dipentylester, branched and linear) (CAS No.: 84777-06-0)	0.05
87.	乙二醇二乙醚 (1,2-Diethoxyethane) (CAS No.: 629-14-1)	0.05
88.	正丙基溴 (1-bromopropane (n-propyl bromide)) (CAS No.: 106-94-5)	0.05
89.	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷 (3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine) (CAS No.: 143860-04-2)	0.05
90.	4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基 [以及所有的被定義的物質，未知成分或可變成分的物質，聚合物和同系物] (4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues])	0.05
91.	4,4'-二氨基-3,3'-二甲基聯苯基甲烷 (4,4'-Methylenedi-o-toluidine) (CAS No.: 838-88-0)	0.05
92.	4,4'-二氨基二苯醚 (4,4'-Oxydianiline and its salts) (CAS No.: 101-80-4)	0.05
93.	4-苯基偶氮基苯胺 (4-Aminoazobenzene) (CAS No.: 60-09-3)	0.05
94.	2,4-二氨基甲苯 (2,4-Diaminotoluene) (CAS No.: 95-80-7)	0.05
95.	分支或線性的壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
96.	3-甲基-6-甲氧基苯胺 (6-methoxy-m-toluidine (p-cresidine)) (CAS No.: 120-71-8)	0.05
97.	堿式醋酸鉛 (Acetic acid, lead salt, basic)*** (CAS No.: 51404-69-4)	-
98.	4-氨基聯苯 (Biphenyl-4-ylamine) (CAS No.: 92-67-1)	0.05

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99.	十溴聯苯醚 (Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)) (CAS No.: 1163-19-5)	0.05
100.	六氫苯二甲酸酐 (Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05
101.	偶氮[二]甲醯胺 (Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (CAS No.: 123-77-3)	0.05
102.	二氯二丁基錫 (Dibutyltin dichloride) (DBTC)*** (CAS No.: 683-18-1)	-
103.	硫酸二乙酯 (Diethyl sulphate) (CAS No.: 64-67-5)	0.05
104.	鄰苯二甲酸二異戊酯 (Diisopentyl phthalate) (CAS No.: 605-50-5)	0.05
105.	硫酸二甲酯 (Dimethyl sulphate) (CAS No.: 77-78-1)	0.05
106.	2-(1-甲基丙基)-4,6-二硝基苯酚 (Dinoseb (6-sec-butyl-2,4-dinitrophenol)) (CAS No.: 88-85-7)	0.05
107.	雙(十八酸基)二氧代三鉛 (Dioxobis(stearato)trilead)*** (CAS No.: 12578-12-0)	-
108.	C16-18-脂肪酸鉛鹽 (Fatty acids, C16-18, lead salts)*** (CAS No.: 91031-62-8)	-
109.	呋喃 (Furan) (CAS No.: 110-00-9)	0.05
110.	全氟十一酸 (Henicosafluoroundecanoic acid) (CAS No.: 2058-94-8)	0.05
111.	全氟十四酸 (Heptacosafluorotetradecanoic acid) (CAS No.: 376-06-7)	0.05
112.	甲基六氫苯酐 (Hexahydromethylphthalic anhydride) (CAS No.: 25550-51-0) 4-甲基六氫苯酐 (Hexahydro-4-methylphthalic anhydride) (CAS No.: 19438-60-9) 3-甲基六氫苯酐 (Hexahydro-3-methylphthalic anhydride) (CAS No.: 57110-29-9) 1-甲基六氫苯酐 (Hexahydro-1-methylphthalic anhydride) (CAS No.: 48122-14-1)	0.05
113.	四氟硼酸鉛 (II) (Lead bis(tetrafluoroborate))*** (CAS No.: 13814-96-5) (※ D)	-
114.	氨基氰鉛鹽 (Lead cyanamidate)*** (CAS No.: 20837-86-9)	-
115.	硝酸鉛 (Lead dinitrate)*** (CAS No.: 10099-74-8)	-
116.	氧化鉛 (Lead monoxide) (lead oxide)*** (CAS No.: 1317-36-8)	-
117.	堿式硫酸鉛 (Lead oxide sulfate)*** (CAS No.: 12036-76-9)	-
118.	鈦酸鉛 (Lead titanium trioxide)*** (CAS No.: 12060-00-3)	-
119.	鈦酸鉛鋯 (Lead Titanium Zirconium Oxide)*** (CAS No.: 12626-81-2)	-
120.	甲氧基乙酸 (Methoxyacetic acid) (CAS No.: 625-45-6)	0.05
121.	環氧丙烷 (Methyloxirane (Propylene oxide)) (CAS No.: 75-56-9)	0.05
122.	N,N-二甲基甲醯胺 (N,N-dimethylformamide; dimethyl formamide) (CAS No.: 68-12-2)	0.05
123.	N-甲基乙醯胺 (N-methylacetamide) (CAS No.: 79-16-3)	0.05
124.	鄰苯二甲酸正戊異戊酯 (n-pentyl-isopentylphthalate) (CAS No.: 776297-69-9)	0.05
125.	鄰氨基偶氮甲苯 (o-aminoazotoluene) (CAS No.: 97-56-3)	0.05

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No.	物質名稱 (Substance Name)	RL
126.	四氧化鉛 (Orange lead (lead tetroxide))*** (CAS No.: 1314-41-6)	-
127.	鄰甲苯胺 (o-Toluidine) (CAS No.: 95-53-4)	0.05
128.	全氟十三酸 (Pentacosafluorotridecanoic acid) (CAS No.: 72629-94-8)	0.05
129.	氧化鉛與硫酸鉛的複合物 (Pentalead tetraoxide sulphate)*** (CAS No.: 12065-90-6)	-
130.	C.I.顏料黃41 (Pyrochlore, antimony lead yellow)*** (CAS No.: 8012-00-8)	-
131.	含鉛的矽酸鋇 (Silicic acid (H2Si2O5), barium salt (1:1), lead-doped)*** (CAS No.: 68784-75-8) (※ B)	-
132.	矽酸鉛 (Silicic acid, lead salt)*** (CAS No.: 11120-22-2)	-
133.	亞硫酸鉛(II) (Sulfurous acid, lead salt, dibasic)*** (CAS No.: 62229-08-7)	-
134.	四乙基鉛 (Tetraethyllead)*** (CAS No.: 78-00-2)	-
135.	三鹼式硫酸鉛/ C.I. 顏料白 (Tetralead trioxide sulphate)*** (CAS No.: 12202-17-4)	-
136.	全氟十二酸 (Tricosafluorododecanoic acid) (CAS No.: 307-55-1)	0.05
137.	堿式碳酸鉛 (Trilead bis(carbonate) dihydroxide (basic lead carbonate))*** (CAS No.: 1319-46-6)	-
138.	磷酸氧化鉛 (Trilead dioxide phosphonate)*** (CAS No.: 12141-20-7)	-
139.	分支或線性的乙氧化壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 (4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof])	0.05
140.	全氟辛酸銨 (Ammonium pentadecafluorooctanoate) (APFO)*** (CAS No.: 3825-26-1)	-
141.	鎘 (Cadmium) (Cd) (CAS No.: 7440-43-9)	0.005
142.	氧化鎘 (Cadmium oxide)*** (CAS No.: 1306-19-0)	-
143.	鄰苯二甲酸二戊酯 (Dipentyl phthalate) (DPP) (CAS No.: 131-18-0)	0.05
144.	全氟辛酸 (Pentadecafluorooctanoic acid) (PFOA) (CAS No.: 335-67-1)	0.05
145.	硫化鎘 (Cadmium sulphide)*** (CAS No.: 1306-23-6)	-
146.	鄰苯二甲酸二正己酯 (Di-n-hexyl phthalate) (DNHP) (CAS No.: 84-75-3)	0.05
147.	直接紅28 (Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)) (CAS No.: 573-58-0)	0.05
148.	直接黑38 (Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)) (CAS No.: 1937-37-7)	0.05
149.	亞乙基硫脲 (Imidazolidine-2-thione (2-imidazoline-2-thiol)) (CAS No.: 96-45-7)	0.05
150.	醋酸鉛 (Lead di(acetate))*** (CAS No.: 301-04-2)	-
151.	磷酸三(二甲苯)酯 (Trixylyl phosphate) (CAS No.: 25155-23-1)	0.05

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No.	物質名稱 (Substance Name)	RL
152.	鄰苯二甲酸二己酯(支鏈和直鏈) (1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear) (CAS No.: 68515-50-4)	0.05
153.	氯化鎘 (Cadmium chloride)*** (CAS No.: 10108-64-2)	-
154.	過硼酸鈉 (Sodium perborate; perboric acid, sodium salt)***	-
155.	過氧偏硼酸鈉 (Sodium peroxometaborate)*** (CAS No.: 7632-04-4)	-
156.	2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑 (紫外線吸收劑328) (2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol) (UV-328) (CAS No.: 25973-55-1)	0.05
157.	2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 (紫外線吸收劑320) (2-benzotriazol-2-yl-4,6-di-tert-butylphenol) (UV-320) (CAS No.: 3846-71-7)	0.05
158.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫 (2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE))*** (CAS No.: 15571-58-1)	-
159.	氟化鎘 (Cadmium fluoride)*** (CAS No.: 7790-79-6)	-
160.	硫酸鎘 (Cadmium sulphate)*** (CAS No.: 10124-36-4, 31119-53-6)	-
161.	二正辛基-雙(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 (Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE))***	-
162.	鄰苯二甲酸二(C6-10)烷基酯; 鄰苯二甲酸二己、二辛、二癸酯混合物;鄰苯二甲酸二己酯 ≧ 0.3% (1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≧ 0.3% of dihexyl phthalate) (CAS No.: 68515-51-5, 68648-93-1)	0.05
163.	5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[1],5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二氧環己烷[2],[任何[1]和[2]或者其任意組合的單獨異構物或其任何組合] (5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof])	0.05
164.	1,3-丙烷磺內酯 (1,3-propanesultone) (CAS No.: 1120-71-4)	0.05
165.	2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(紫外線吸收劑327) (2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol) (UV-327) (CAS No.: 3864-99-1)	0.05
166.	2-(3-仲-丁基-5-叔丁基-2-羟苯基)苯并三唑(紫外線吸收劑 UV-350) (2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol) (UV-350) (CAS No.: 36437-37-3)	0.05
167.	硝基苯 (Nitrobenzene) (CAS No.: 98-95-3)	0.05
168.	全氟壬酸 (Perfluorononan-1-oic-acid and its sodium and ammonium salts) (CAS No.: 375-95-1, 21049-39-8, 4149-60-4)	0.05
169.	苯并(a)芘 (Benzo[def]chrysene (Benzo[a]pyrene)) (CAS No.: 50-32-8)	0.05

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No.	物質名稱 (Substance Name)	RL
170.	雙酚A (4,4'-isopropylidenediphenol) (Bisphenol A) (CAS No.: 80-05-7)	0.05
171.	4-庚基苯酚，支鍊及直鍊 (4-HPbl)，包括含有7個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支7個碳烷基鏈的UVCB物質 (4-Heptylphenol, branched and linear (4-HPbl) [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	0.05
172.	十九氟癸酸及其鈉和銨鹽 (Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts) (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05
173.	對(1,1-二甲基丙基)苯酚 (p-(1,1-dimethylpropyl)phenol) (CAS No.: 80-46-6)	0.05
174.	全氟己基磺酸及其鹽類 (Perfluorohexane-1-sulphonic acid and its salts) (PFHxS) (CAS No.: 355-46-4)	0.05
175.	德克隆(涵蓋各個反式及順式同分異構物或者相關組合) (1,6,7,8,9,14,15,16,17, 17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"TM) [covering any of its individual anti- and syn-isomers or any combination thereof])	0.05
176.	苯並[a]蒽 (Benz[a]anthracene) (CAS No.: 56-55-3)	0.05
177.	硝酸鎘 (Cadmium nitrate)*** (CAS No.: 10325-94-7)	-
178.	碳酸鎘 (Cadmium carbonate)*** (CAS No.: 513-78-0)	-
179.	氫氧化鎘 (Cadmium hydroxide)*** (CAS No.: 21041-95-2)	-
180.	苯並[a]菲 (Chrysene) (CAS No.: 218-01-9)	0.05
181.	1,3,4-噻唑烷-2,5-二硫酮，甲醛及4-庚基苯酚支鏈及直鏈反應物, (RP-HP) [含≥0.1% w/w 支鏈及直鏈4-庚基苯酚] (Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]) (※ R)	-
182.	鄰苯二甲酸二環己酯 (Dicyclohexyl phthalate) (DCHP) (CAS No.: 84-61-7)	0.05
183.	1,2,4-苯三甲酸酐 (Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)) (CAS No.: 552-30-7)	0.05
184.	苯並(G,H,I)苝 (Benzo[ghi]perylene) (CAS No.: 191-24-2)	0.05
185.	八甲基環四矽氧烷 (Octamethylcyclotetrasiloxane) (D4) (CAS No.: 556-67-2)	0.05
186.	十甲基環五矽氧烷 (Decamethylcyclopentasiloxane) (D5) (CAS No.: 541-02-6)	0.05
187.	十二甲基環六矽氧烷 (Dodecamethylcyclohexasiloxane) (D6) (CAS No.: 540-97-6)	0.05
188.	氧化硼鈉 (Disodium octaborate)*** (CAS No.: 12008-41-2)	-
189.	乙二胺 (Ethylenediamine) (CAS No.: 107-15-3)	0.05
190.	鉛 (Lead) (Pb) (CAS No.: 7439-92-1) (●)	0.005
191.	氫化三聯苯 (Terphenyl, hydrogenated) (CAS No.: 61788-32-7)	0.05
192.	2,2-雙(4-羥基苯基)-4-甲基戊烷 (2,2-bis(4'-hydroxyphenyl)-4-methylpentane) (CAS No.: 6807-17-6)	0.05

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No.	物質名稱 (Substance Name)	RL
193.	苯駢(k)螢蒽 (Benzo[k]fluoranthene) (CAS No.: 207-08-9)	0.05
194.	苯駢苊 (Fluoranthene) (CAS No.: 206-44-0)	0.05
195.	菲 (Phenanthrene) (CAS No.: 85-01-8)	0.05
196.	芘 (Pyrene) (CAS No.: 129-00-0)	0.05
197.	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚-2-酮 (1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)) (CAS No.: 15087-24-8)	0.05
198.	2,3,3,3-四氟-2-(七氟丙氧基)丙酸，鹽類，及其醯鹵(涵蓋他們其個別和組合之同分異構物) (2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof))	0.05
199.	2-甲烷氧基乙基乙酯 (2-methoxyethyl acetate) (CAS No.: 110-49-6)	0.05
200.	4-叔丁基苯酚 (4-tert-butylphenol) (CAS No.: 98-54-4)	0.05
201.	三(4-壬苯基,支鏈及直鏈)亞磷酸酯 (Tris(4-nonylphenyl, branched and linear) phosphite (TNPP))	0.05
202.	二異己基鄰苯二甲酸酯 (Diisohexyl phthalate) (CAS No.: 71850-09-4)	0.05
203.	2-苄基-2-二甲基氨基-1-(4-嗎啉苯基)丁酮 (2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone) (CAS No.: 119313-12-1)	0.05
204.	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮 (2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one) (CAS No.: 71868-10-5)	0.05
205.	全氟丁磺酸及其相關鹽類 (Perfluorobutane sulfonic acid (PFBS) and its salts)	0.05
206.	1-乙烯基咪唑 (1-vinylimidazole) (CAS No.: 1072-63-5)	0.05
207.	2-甲基咪唑 (2-methylimidazole) (CAS No.: 693-98-1)	0.05
208.	4-羥基苯甲酸丁酯 (Butyl 4-hydroxybenzoate) (CAS No.: 94-26-8)	0.05
209.	二正丁基雙(乙醯丙酮基)錫 (Dibutylbis(pentane-2,4-dionato-O,O')tin)*** (CAS No.: 22673-19-4)	-
210.	雙(2-(2-甲氧基乙氧基)乙基)醚 (Bis(2-(2-methoxyethoxy)ethyl) ether) (CAS No.: 143-24-8)	0.05
211.	二月桂酸二辛基錫，錫烷，二辛基-，雙(椰油醯氧基)衍生物，以及任何其他錫烷，二辛基-，雙(脂肪醯氧基)衍生物。其中C12為脂肪醯氧基部分的主要碳原子數 (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety)***	-
212.	1,4-二氧陸圜 (1,4-dioxane) (CAS No.: 123-91-1)	0.05
213.	2,2-雙(溴甲基)-1,3-丙二醇 (2,2-bis(bromomethyl)propane1,3-diol) (BMP) (CAS No.: 3296-90-0)	0.05
	3-溴-2,2-雙(溴甲基)-1-丙醇 (2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol) (TBNPA) (CAS No.: 36483-57-5, 1522-92-5)	0.05
	2,3-二溴-1-丙醇 (2,3-dibromo-1-propanol) (2,3-DBPA) (CAS No.: 96-13-9)	0.05

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No.	物質名稱 (Substance Name)	RL
214.	2-(4-叔丁基苄基)丙醛及其個別立體異構物 ((2R)-3-(4-叔丁基苯基)-2-甲基丙醛; 2-(4-叔丁基苄基)丙醛; (2S)-3-(4-叔丁基苯基)-2-甲基丙醛) (2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers ((2R)-3-(4-tert-butylphenyl)-2-methylpropanal; 2-(4-tert-butylbenzyl)propionaldehyde; (2S)-3-(4-tert-butylphenyl)-2-methylpropanal)) (CAS No.: 75166-31-3; 80-54-6; 75166-30-2)	0.05
215.	雙酚B (4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)) (CAS No.: 77-40-7)	0.05
216.	戊二醛 (Glutaral) (CAS No.: 111-30-8)	0.05
217.	中鏈氯化石蠟 (C14-16); 中鏈氯化石蠟 (C14-17); 二、三及四氯十四烷; 十四烷氯衍生物 (Alkanes, C14-16, chloro; Alkanes, C14-17, chloro; di-, tri- and tetrachlorotetradecane; Tetradecane, chloro derivs.) (CAS No.: 1372804-76-6; 85535-85-9; 198840-65-2)	0.05
218.	硼酸鈉鹽 (Orthoboric acid, sodium salt)*** (CAS No.: 13840-56-7)，硼酸鈉鹽及其水合物; 硼酸二鈉鹽; 硼酸三鈉; 硼酸鈉; 硼酸鈉鹽 (1:1) (boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1)) (CAS No.: 25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 14890-53-0) (※ U)	-
219.	經由低聚合反應烷基化的苯酚產物(主要在對位位置)帶有12個碳的支鏈或直鏈，並涵蓋各種同分異構物及/或其各種組合 (支鏈 4-十二烷基苯酚; 4-異十二烷基苯酚; 4-異十二烷基苯酚; 支鏈十二烷基苯酚; 四丙烯基苯酚衍生物; 四丙烯苯酚) (Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (Phenol, 4-dodecyl, branched; 4-isododecylphenol; Phenol, 4-isododecyl-; Phenol, dodecyl-, branched; Phenol, (tetrapropenyl) derivatives; Phenol, tetrapropylene-)) (CAS No.: 210555-94-5; 27459-10-5; 27147-75-7; 121158-58-5; 74499-35-7; 57427-55-1)	0.05
220.	(±)-1,7,7-三甲基-3-[(4-甲基苯基)亞甲基]二環[2.2.1]庚烷-2-酮，包括各個異構體和/或其組合 ((±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof) (4-MBC)	0.05
221.	6,6'雙二叔丁基-2,2'-亞甲基雙對甲酚 (6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol) (DBMC) (CAS No.: 119-47-1)	0.05
222.	硫-(三環[5.2.1.0'2,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基)二硫代磷酸酯 (S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate) (CAS No.: 255881-94-8) (※ G)	0.05
223.	三(2-甲氧基乙氧基)乙烯基矽烷 (Tris(2-methoxyethoxy)vinylsilane) (CAS No.: 1067-53-4)	0.05
224.	N-羥甲基丙烯醯胺 (N-(hydroxymethyl)acrylamide) (CAS No.: 924-42-5)	0.05
225.	1,2-雙(2,4,6-三溴苯氧基)乙烷 (1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]) (CAS No.: 37853-59-1)	0.05
226.	四溴雙酚A (2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol) (CAS No.: 79-94-7)	0.05
227.	雙酚S (4,4'-sulphonyldiphenol) (CAS No.: 80-09-1)	0.05

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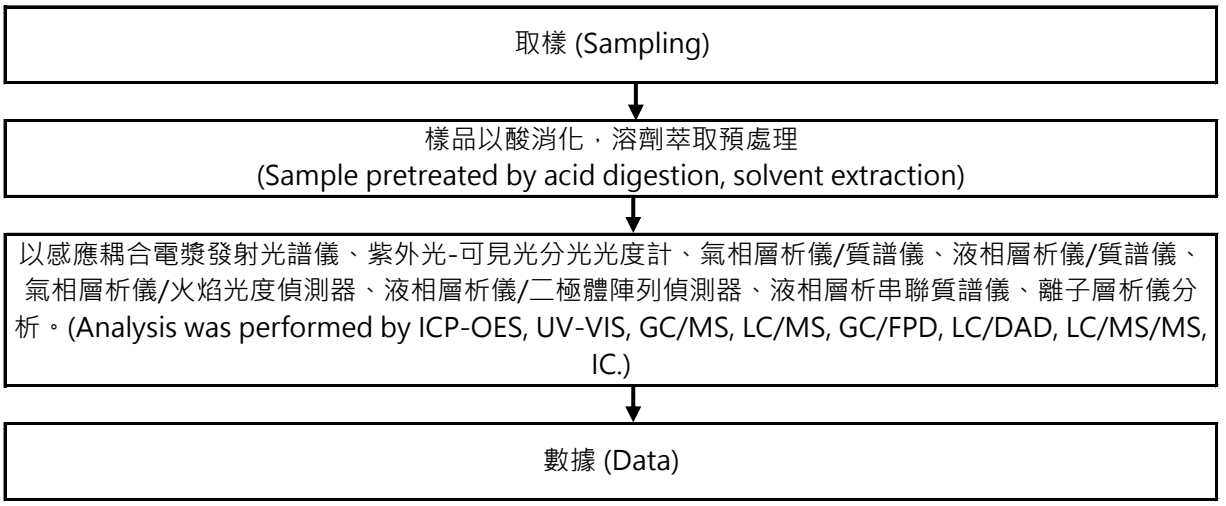
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No.	物質名稱 (Substance Name)	RL
228.	偏硼酸鋇 (Barium diboron tetraoxide)*** (CAS No.: 13701-59-2) (※ A)	-
229.	雙(2-乙基己基)四溴鄰苯二甲酸酯，覆蓋任何單個異構體和/或其組合 (Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof)	0.05
230.	4-羥基苯甲酸 2-甲基丙酯 (Isobutyl 4-hydroxybenzoate) (CAS No.: 4247-02-3)	0.05
231.	三聚氰胺 (Melamine) (CAS No.: 108-78-1)	0.05
232.	全氟庚酸及其鹽類 (Perfluoroheptanoic acid and its salts)	0.05
233.	2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)嗎啉和2,2,3,3,5,5,5,6,6-八氟烷-4-(七氟丙基)嗎啉的反應物料 (reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine) (※ I)	0.05
234.	4,4'-二氯二苯基碸 (Bis(4-chlorophenyl) sulphone) (CAS No.: 80-07-9)	0.05
235.	(2,4,6-三甲基苯甲醯基)二苯基氧化磷 (Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) (CAS No.: 75980-60-8)	0.05
236.	2,4,6-三叔丁基苯酚 (2,4,6-tri-tert-butylphenol) (CAS No.: 732-26-3)	0.05
237.	2-(2H-苯並三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚 (紫外線吸收劑329) (2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (CAS No.: 3147-75-9)	0.05
238.	2-二甲氨基-2-(4-甲基)苄基-1-[4-(4-嗎啉基)苯基]-1-丁酮 (2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one) (CAS No.: 119344-86-4)	0.05
239.	2-(5-氯-2-苯三唑基)-6-叔丁基-4-甲基苯酚 (紫外線吸收劑326) (Bumetrizole) (CAS No.: 3896-11-5)	0.05
240.	2-苯基丙烯與苯酚的低聚合烷基化反應物 (Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol)	0.05
241.	過氧化二異丙苯 (Bis(α,α-dimethylbenzyl) peroxide) (CAS No.: 80-43-3)	0.05
242.	磷酸三苯酯 (Triphenyl phosphate) (CAS No.: 115-86-6)	0.05
243.	6-[(C10-C13)-烷基-(支鏈，不飽和)-2,5-二氧代吡咯烷-1-基]己酸 (6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid) (CAS No.: 2156592-54-8)	0.05
244.	硫代磷酸(O,O,O-三苯基)酯 (O,O,O-triphenyl phosphorothioate) (CAS No.: 597-82-0)	0.05
245.	八甲基三矽氧烷 (Octamethyltrisiloxane) (CAS No.: 107-51-7)	0.05
246.	全氟三丙胺 (Perfluamine) (CAS No.: 338-83-0)	0.05
247.	三苯基硫代磷酸與叔丁基苯衍生物的反應物 (Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives) (CAS No.: 192268-65-8)	0.05
248.	甲基三(三甲基矽烷氧基)矽烷 (1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane) (CAS No.: 17928-28-8)	0.05
249.	十甲基四矽氧烷 (Decamethyltetrasiloxane) (CAS No.: 141-62-8)	0.05
250.	活性棕51 (Reactive Brown 51)*** (※ J)	-

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分析流程圖 (Analytical flow chart)



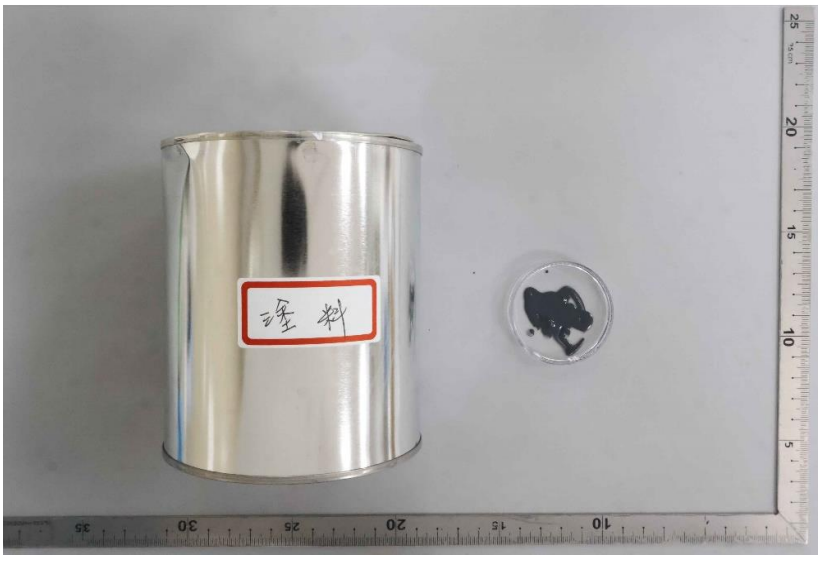
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測試報告
Test Report

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*** 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. ***
(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR25902727



** 報告結尾 (End of Report) **

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