

# TACHIA CHEMICAL CO., LTD.

TEL : (886)4-2687-1012 FAX : (886)4-2687-5563  
525, Section 1, Chung-Sun Rd., Tachia 437010, Taiwan,

## 安全資料表

### Safety Data Sheet

#### 1、化學名稱與廠商資料Identification of the substance / preparation and company

化學品名稱：No.6766水性色漿 白 Chemicals Name: No.6766 Water-Based Pigment Concentrate White 唯一配方識別碼Unique formula identifier (UFI)：VFUR-JEEC-YX5T-CMJJ
其他名稱：水性塗料 Other Name：Water-Based Paint
建議用途及限制使用：添加在大部分水性油墨及噴漆調色。 Recommended Application：Add to most water-based inks and spray paints for color mixing.
製造者、輸入者或供應者名稱、地址及電話 Names, addresses, and phone numbers of the manufacturer, importer or supplier. 大甲化工實業(股)公司 台中市大甲區中山路一段525號 886-4-26871012 Tachia Chemical Co., Ltd. 525, Sec. 1, Chung Sun Rd., 437010 Tachia, Taiwan 886-4-26871012 緊急連絡電話/傳真電話Emergency Phone / Fax：886-4-26871012 / 886-4-26875563

#### 2、危害辨識資料Hazard Identification

##### 化學品危害分類Chemicals Hazard Class：

依據EC No. 1272/2008 CLP、GHS、EC No. 1907/2006 REACH等法規及 ECHA資料分類。  
Classification according to EC No. 1272/2008 CLP, GHS, EC No. 1907/2006 REACH regulations & ECHA information.

危害分類 Hazard class		危害訊息 Hazard statement	
分類Class	級別 Category	代碼 Code	訊息Statement
無適用分類. Not classified.		無適用分類. Not classified.	
標示內容Index contents：			
象徵符號：- Symbols：-			
警示語：無 Signal word: None			
危害防範措施Hazardous Prevention/ Storage：			
預防：- Prevention: -			

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應變：-

Response：-

儲存Storage：

P235 存放在陰涼的地方

Keep cool.

廢棄物處理Disposal：

P501 按照當地/國家法規處置廢棄物及空容器。

Dispose of contents / container in accordance with local / national regulations.

其他危害Other hazards：

未含有任何已知或疑似為內分泌干擾物的成分。

Contains no ingredients known or suspected to be endocrine disrupting chemicals (EDCs).

## 3、成份辨識資料Composition / Information on Ingredients

混合物 Mixture：

化學性質Chemical Characteristic：水性色粉濃縮液water-based pigment concentrate

危害成分中英文名稱 Chinese and English names of the hazardous ingredients	濃度或濃度範圍(成份百分比) Concentration/Percentage	CAS no.
二氧化鈦Titanium dioxide	70 - 75%	13463-67-7
水Water	15 - 20%	7732-18-5
乙二醇Ethylene Glycol	1 - 4%	107-21-1
聚合物的烷基醇銨鹽 Alkylolammonium salt of a polymer	1 - 3%	不適用 Not applicable

具體的化學特性和/或成分的確切百分比已作為商業機密予以保留。

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

非危害成分Non-hazardous Ingredients：

依據EC No. 1272/2008 CLP、GHS、EC No. 1907/2006 REACH等法規及 ECHA資料分類。

Classification according to EC No. 1272/2008 CLP, GHS, EC No. 1907/2006 REACH regulations & ECHA information.

成分 Ingredient	CAS no.	摘要 Summary	根據 Source
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二氧化鈦 Titanium dioxide	13463-67-7	<p>不符合GHS危害分類標準。 Not classified as hazardous according to GHS criteria.</p> <p>根據大多數公司向ECHA提供CLP通知中，沒有對危險進行分類。對於這種物質，沒有統一的分類，也沒有製造商、進口商或下游用戶通報的危害。 According to the majority of notifications provided by companies to ECHA in CLP notifications no hazards have been classified. There is no harmonised classification and there are no notified hazards by manufacturers, importers or downstream users for this substance.</p> <p>警告：當此成分單純以奈米顆粒形式存在時，根據歐盟批准的統一分類和標籤(ATP14)，該物質疑似致癌。 Warning: When present solely in the form of nanoparticles, this ingredient is suspected to be carcinogenic according to the EU-approved harmonized classification and labeling (ATP14).</p> <p>本產品為液態，不適用粒徑危害法規及不會產生此成分之初級粒徑粉體危害。 This product is in liquid state, particle size hazard regulations do not apply and will not cause primary particle size powder hazards of this ingredient.</p>	ECHA
聚合物的烷基醇銨鹽 Alkylolammonium salt of a polymer	不適用 Not applicable	<p>不符合GHS危害分類標準。 Not classified as hazardous according to GHS criteria.</p>	供應商 Vendor

## 危害成分危害分類Hazard Classification of the Hazardous Ingredients：

依據EC No. 1272/2008 CLP、GHS、EC No. 1907/2006 REACH等法規及 ECHA資料分類。

Classification according to EC No. 1272/2008 CLP, GHS, EC No. 1907/2006 REACH regulations & ECHA information.

成分 Ingredient	CAS no.	危害分類 Hazard Class		危害訊息 Hazard statement		危害圖示 Pictograms, Signal Word
		分類 Class	級別 Cat.	代碼 Code	訊息 statement	
乙二醇 Ethylene Glycol	107-21-1	急毒性物質：吞食 Acute toxicity, oral	4	H302	吞食有害 Harmful if swallowed	 GHS07  GHS08 Warning
		特定標的器官系統毒性物質 —單一暴露 STOT - repeated exposure	2	H373	長期或反覆接觸會對器官造成損害 Causes damage to organs through prolonged or repeated exposure	

## 毒理資料Toxicological Data：

(EU) 2020/878 SDS新要求：如果物質/成分依據歐盟CLP法規具有特殊濃度限值、M因數或急性毒性估計值，應同時列明在SDS第3節。

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(EU) 2020/878 New Requirements for SDS: Specific concentration limits, multiplying factors and acute toxicity estimates set in accordance with Regulation (EC) No 1272/2008, are relevant for the safe use of substances and mixtures, if available. This information should be part of section 3.

成分 Ingredient	CAS no.	評估端點 Endpoint	暴露途徑 Route	物種 Species	閾值 Threshold	根據 Source
整體產品 Overall product	-	半致死劑量 LD50	吞食 Oral	鼠 Rat	>5000 mg/kg bw 不符合GHS標準 GHS criteria not met	ATE <sub>mix</sub>
		半致死劑量 LC50	吸入 Inhalation	鼠 Rat	>5000 ppm (6h) 不符合GHS標準 GHS criteria not met	
		半致死劑量 LD50	皮膚 Dermal	鼠 Mouse	>5000 mg/kg bw 不符合GHS標準 GHS criteria not met	
乙二醇 Ethylene Glycol	107-21-1	半致死劑量 LD50	吞食 Oral	鼠 Rat	7712 mg/kg bw	ECHA
		半致死劑量 LC50	吸入 Inhalation	鼠 Rat	2.5 mg/L air (6h)	
		半致死劑量 LD50	皮膚 Dermal	鼠 Mouse	3500 mg/kg bw	

ATE<sub>mix</sub>：急毒性估計計算值Acute toxicity estimate calculated value

ECHA：歐洲化學品管理局European Chemicals Agency

## 4、急救措施First Aid Measures

### 不同暴露途徑之急救方法Emergency and First Aid Procedures：

吸入：若呼吸困難，請移至新鮮空氣處，並施以人工呼吸。

**Inhalation:** If breathing is difficult, move individual to fresh air, give artificial respiration.

皮膚接觸：用布擦掉污染物，並用大量清水及肥皂沖洗。

**Skin Contact:** Remove contaminate with rag and wash thoroughly with plenty of soap and water.

眼睛接觸：馬上用大量清水沖洗至少15分鐘以上，若持續有疼痛感覺請立即就醫。

**Eye Contact:** Flush with plenty of water at least 15 minutes Get medical attention if painful feeling persisted.

食入：多喝水，勿催吐，立刻送醫。

**Ingestion:** Drink large amounts of water, do not induce vomiting. Get medical attention immediately.

最重要症狀及危害效應：無。

Major Disease and Harm Effect: None.

對急救人員之防護：戴防護手套避免接觸到污染物。

First-Aid Personal Protection: Protective gloves to prevent contact with the contaminated materials.

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對醫師之建議： -  
Prompt to Doctor : -

## 5、滅火措施Fire Fighting Measure

適用滅火劑：水、化學乾粉、泡沫、二氧化碳。

Suitable Extinguishing Media: Water spray, dry powder, foam or carbon dioxide.

滅火時可能遭遇之特殊危害：可能產生一氧化碳、二氧化碳和有毒的煙。

Special Exposure Hazards: Carbon dioxide, carbon monoxide and toxic fumes may form when burned.

特殊滅火程式：保持在上風處以避免濃煙。噴水可冷卻暴露在大火下的容器。消防水勿進入水源或下水道。在可確保安全的情況下將未著火的容器搬運到安全處所。若污染水源，請向主管機關通報。

Special Extinguishing Procedure: Keep up-wind to avoid fumes. Water spray may be used to keep fire exposed containers cool. Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire, if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

消防人員之特殊防護設備：配戴供氣式呼吸器。

Special Protection Equipment: Wear full protective NIOSH-approved self-contained breathing apparatus.

## 6、洩漏處理方法Accidental Release Measures

個人應注意事項：勿讓閒雜人員進入，工作時須戴橡膠手套，勿吸入蒸氣或粉塵。

Personal Protection: Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protective equipment (rubber gloves). Do not breathe vapors/dust.

環境注意事項：勿讓洩漏物進入下水道、水源及土壤造成污染。

Environmental Protection: Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration.

清理方法：以吸附劑吸附並用鏟子鏟入桶內。

Methods for Cleaning Up: Collect liquid in an appropriate container or absorb with an inert material.

## 7、安全處置與儲存方法Handling and Storage

處置：須戴防護手套。避免溢漏或接觸皮膚、眼睛。

Handling: Wear appropriate gloves. Avoid spilling, skin and eye contact.

儲存：1.儲存於陰涼(10~40°C)、乾燥、通風良好及陽光無法照射處。

2.不用時封口、綁緊、容器加蓋。

3.攝氏零度以下會凝結，避免結冰或受高熱。

Storage: 1. Store in a cool(10~40°C), dry well-ventilated location. Avoid direct sun.

2. Seal or close while not used.

3. Coagulates under zero degrees. Protect against frost and intensive heating.

## 8、暴露預防措施Exposure Control/Personal Protection

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工程控制：需設置中央制式或局部排氣設備。局部排氣因可在發生源制溢散，效果較中央制式好。  
Engineering Control: A system of local and/or general exhaust is recommended. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

## 控制參數 Control parameters

成分 Ingredient	CAS no.	八小時量 平均容許濃度 TWA 8-hour average concentration allowed		短時間時量 平均容許濃度 STEL Short amount of time to allow the average concentration		最高容許濃度 Ceiling Maximum allowable concentration		生物指標 BEIs Biological indicators	根據 Source
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	mg/L	
乙二醇 Ethylene Glycol	107-21-1	-	-	-	-	-	-	-	OSHA/ ACGIH

OSHA：職業安全與衛生管理局Occupational Safety and Health Administration

## 個人防護設備Personal Protection Equipment：

呼吸防護：無特別要求。

**Respiratory Protection:** No special requirements.

手部防護：手部如有直接接觸時需配戴防護手套。

**Hand Protection:** Wear suitable protective gloves if the hand is in direct contact.

眼睛防護：噴漆時，如沒有防護罩時，需配戴護目鏡或面罩。

**Eye Protection:** If there does not have a protective cover, wear suitable protective goggles or full-face shield during spraying.

皮膚及身體防護：穿著防護服覆蓋到手臂和腿部。

**Skin & Body Protection:** Cover arms and legs with protective clothing.

衛生措施：遵守一般的衛生措施，污染的衣物必須立刻更換，工作完後或飲食前洗手。

Hygiene Procedures: Observe the common precautionary measures, contaminated clothes must be changed immediately, wash hands after work or before eating or drinking.

## 9、物理及化學性質Physical and Chemical Properties/Characteristics

外觀(顏色、狀態)：白色糊狀物液體 Appearance (color, state): White paste liquid	氣味：輕微 Odor: Slight
嗅覺閾值：- Olfactory threshold: -	熔點：- Melting point: -
pH值：7 ~ 9 PH value: 7 - 9	沸點/沸點範圍：100°C Boiling Point / Boiling Range: 100 °C

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分解溫度：- Decomposition Temperature: -	閃火點：不可燃 Flash Point: Non-flammability
易燃性(固體、氣體)：不可燃 Flammable (solid, gas): Non-flammability	
自燃溫度：- Spontaneous Temperature: -	爆炸界限：- Explosive Limits: -
蒸氣壓：17.5mmHg @ 20°C Vapor Pressure: 17.5mmHg @ 20°C	蒸氣密度：1.07g/cm <sup>3</sup> Vapor Density: 1.07g/cm <sup>3</sup>
比重：3.3 ~ 3.4 @ 20°C (水=1) Specific Gravity: 3.3 – 3.4 @ 20°C (Water=1)	溶解度：可溶於水 Solubility in Water: Miscible
辛醇/水分配係數：- Log Kow: -	揮發速率：- Vaporization Rate: -
揮發性有機化合物Volatile Organic Compounds (VOC)：1 - 4%	

## 10、安定性及反應性Stability and Reactivity

安定性：安定。

Stability: Stable.

特殊狀況下可能之危害反應：-

Special Conditions of Hazardous Reaction: -

應避免之狀況：低於5°C或超過40°C的溫度可能會凝結或分層。

Conditions to Avoid: At <5°C or > 40°C, phase separation, possible coagulation.

應避免之物質：強酸鹼。

Incompatibility: Strong acids, strong alkalis.

危害分解物：高溫可能分解出一氧化碳、二氧化碳。

Hazardous Decomposition Products: Produce carbon dioxide or carbon mono-oxide at extremely high temperature.

## 11、毒性資料Toxicological Information

如果主管當局規定了特定成分的分類，則以下信息可能與第 2 節中的本產品分類不一致。此外，單獨成分的毒理學數據可能不會呈現在本產品分類和 (或) 暴露的體徵和症狀中，因為該成分的閾值可能低於標籤之標示量、也可能不會有暴露問題，或者該數據可能與整個產品訊息無關。

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

暴露途徑：皮膚接觸、食入。

Exposure means: Skin contact, ingestion.

症狀：查無可用資料。

Symptoms: No information available.

皮膚腐蝕/刺激：不刺激。

Skin corrosion/ irritation: Not irritating.

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眼睛腐蝕/ 刺激：不刺激。 Eye corrosion/ irritation: Not irritating.
呼吸腐蝕/ 刺激：不刺激。 Respiratory corrosion/ irritation: Not irritating.
皮膚過敏性：不致敏。 Skin sensitization: Not sensitizing.
呼吸過敏性：不致敏。 Respiratory Sensitization: Not sensitizing.
遺傳毒性/ 致突變性/ 致畸形：查無可用資料。 Genetic toxicity/ Mutagenicity/ Teratogenicity: No information available.
生殖毒性/ 生長發育的影響：查無可用資料。 Toxicity to reproduction/ Developmental Effects: No information available.
致癌性：查無可用資料。 Carcinogenicity: No information available.
內分泌干擾性：無對哺乳類之內分泌干擾物。 Endocrine disrupting properties: No mammalian endocrine disrupting chemicals (EDCs).
長期暴露：查無可用資料。 Chronic exposure: No information available.

## 毒理資料Toxicological Data：

### 腐蝕/ 刺激 Corrosion/ Irritation：

成分 Ingredient	CAS no.	暴露途徑 Route	研究結果 Study results with study data	根據 Source
乙二醇 Ethylene Glycol	107-21-1	皮膚 Skin	沒有觀察到不良影響 (不刺激) No adverse effect observed (not irritating)	ECHA
		眼睛 Eye	沒有觀察到不良影響 (不刺激) No adverse effect observed (not irritating)	
		呼吸 Respiratory	沒有可用的研究資料 No study available	

### 過敏性Sensitization：

成分 Ingredient	CAS no.	暴露途徑 Route	研究結果 Study results with study data	根據 Source
乙二醇 Ethylene Glycol	107-21-1	皮膚 Skin	沒有觀察到不良影響 (不致敏) No adverse effect observed (not sensitizing)	ECHA
		呼吸 Respiratory	沒有可用的研究資料 No study available	

### 重複暴露毒性Repeated Dose Toxicity：

成分 Ingredient	CAS no.	暴露途徑 Route	物種 Species	閾值 Threshold	根據 Source
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乙二醇 Ethylene Glycol	107-21-1	吞食 Oral	鼠 Rat	全身效應Systemic effects : NOAEL 150 mg/kg bw/day (亞慢毒性subchronic)	ECHA
		皮膚 Dermal	狗 Dog	全身效應Systemic effects : NOAEL 2200 mg/kg bw/day (亞急毒性subacute)	

NOAEL : No Observed Adverse Effect Level未觀察到不良影響最高劑量

LOAEC : Lowest Observed Adverse Effect Concentration可觀察到不良效應之最低濃度

## 生殖毒性/ 生長發育的影響Toxicity to reproduction/ Developmental Effects :

成分 Ingredient	CAS no.	暴露途徑 Route	物種 Species	閾值 Threshold	根據 Source
乙二醇 Ethylene Glycol	107-21-1	-	-	-	ECHA

## 遺傳毒性/ 致突變性/ 致畸形 Genetic toxicity/ Mutagenicity/ Teratogenicity :

成分 Ingredient	CAS no.	暴露途徑 Route	物種 Species	研究結果 Study results with study data	根據 Source
乙二醇 Ethylene Glycol	107-21-1	體外 In Vitro	-	未觀察到不良影響 (陰性) No adverse effect observed (negative)	ECHA
		體內 In Vivo	-	沒有可用的研究資料 No study available	

## 致癌性Carcinogenicity :

成分 Ingredient	CAS no.	暴露途徑 Route	物種 Species	研究結果 Study results with study data	根據 Source
乙二醇 Ethylene Glycol	107-21-1	-	-	-	IARC/ ACGIH

IARC : 國際癌症研究署International Agency for Research on Cancer

ACGIH : 美國政府工業衛生師協會American Conference of Governmental Industrial Hygienists

## 內分泌干擾性 Endocrine disrupting properties :

成分 Ingredient	CAS no.	模式 Model	物種 Species	評估端點 Endpoint	根據 Source
乙二醇 Ethylene Glycol	107-21-1	-	-	-	ECHA

## 12、生態資料Ecological Information

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生態毒性：被認為對水生生物無害。

Eco-toxicity: Considered not harmful to aquatic life.

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## 持久性及降解性Persistence and degradability :

1. 根據試驗顯示，會很快速生物分解。

According to the tests, this substance is rapidly biodegradable.

2. 當釋放至水中，會進行生物分解。

When released to water, it is expected to be biodegradable.

## 生物蓄積性：查無可用資料。

Bioaccumulation: No information available.

## 土壤中之流動性：查無可用資料。

The mobility in soil: No information available.

## 內分泌干擾性：無對哺乳類之內分泌干擾物。

Endocrine disrupting properties: No mammalian endocrine disrupting chemicals (EDCs).

## 其他不良效應：-

Other harmful effects: -

## 毒理資料Toxicological Data :

### 水生生態毒性/ 生物蓄積性Aquatic toxicity/ Bioaccumulation :

成分 Ingredient	CAS no.	物種 Species	毒性 Toxicity	評估端點 Endpoint	蓄積性 BCF	根據 Source
乙二醇 Ethylene Glycol	107-21-1	魚 Fish	急毒性 Acute	LC50 (4 days) 72.86 g/L	-	ECHA
			慢毒性 Chronic	NOEC (28 days) 40 mg/L LOEC (28 days) 1.5 g/L		
		無脊椎動物 Invertebrates	急毒性 Acute	EC50 (48 h) 100 mg/L LC50 (24 h) 74.484 g/L		
			慢毒性 Chronic	NOEC (7 days) 24 g/L		
		藻類/ 藍細菌 Algae/ Cyanobacteria	急毒性 Acute	IC50 (4 days) 10.94 g/L NOEC (72 h) 100 mg/L		
		微生物 Microorganisms	急毒性 Acute	-		

BCF：生物濃縮係數Bioaccumulation Factor

EC50：半致效應濃度Median Effect Concentration

NOEC：未觀察到效應濃度No Observed Effect Concentration

LOEC：最低觀察到效應濃度Lowest Observed Effect Concentration

### 環境歸宿和途徑/ 生物降解Environmental fate and pathways/ Biodegradation :

成分 Ingredient	CAS no.	途徑 Pathway	評估端點 Endpoint	閾值 Threshold	根據 Source
乙二醇 Ethylene Glycol	107-21-1	空氣中光降解 Pt. in air	半衰期 Half-life	46 h	ECHA
		水中生物降解 Bd. in water	篩選試驗 Screening tests	完全可生物分解 100% Readily biodegradable	

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		土壤生物降解 Bd. in soil	半衰期 Half-life	-
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Pt. : 光降解Phototransformation

Bd. : 生物降解Biodegradation

內分泌干擾性Endocrine disrupting properties :

成分 Ingredient	CAS no.	模式 Model	物種 Species	評估端點 Endpoint	根據 Source
乙二醇 Ethylene Glycol	107-21-1	-	-	-	ECHA

## 13、廢棄處置方法Disposal Information

廢棄處置方法：將廢棄物交由合格的清運及處理公司處理。

Disposal Information: Consign the disposal to legal Industrial waste treatment company.

## 14、運送資料Transport Information

組織Organization	IATA/ ICAO	IMDG	ADR/ RID
聯合國編號 UN Code	非危險物質 Not dangerous goods		
國際運輸名稱 International Transport Name	-	-	-
運輸危害分類 Hazard Class	-	-	-
包裝類別 Packing Group	-	-	-
海洋污染物(是/否) Marine pollutants (Yes / No)	No	No	No
特殊運送方法及注意事項- Special Transport Way and Note	避免結凍 Protect against frost.		

UN : 聯合國United Nations

IATA : 國際航空運輸協會International Air Transport Association

ICAO : 國際民航組織International Civil Aviation Organization

IMDG : 國際海運危險品準則International Maritime Dangerous Goods

ADR : 歐洲危險品國際道路運輸協定European Agreement concerning the International Carriage of Dangerous Goods by Road

RID : 危險品國際鐵路運輸條例Regulation concerning the International Carriage of Dangerous Goods by Rail

## 15、法規資料Regulation Information

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## 用法規Application of Regulation :

### 化學品全球調和制度

#### **Globally Harmonized System (GHS)**

職業安全衛生法則中的ANSI Z400.1 - 2004規範

ANSI Z400.1 - 2004 Specification in Occupational Safety and Health Act (OSH Act)

職業安全與衛生管理局29 CFR 1910.1200危害通識標準

OSHA 29 CFR 1910.1200 Hazard Communication Standard (HCS 2012)

EC No. 1272/2008分類標示包裝法規

EC No. 1272/2008 Classification, Labelling and Packaging Regulation (CLP)

EC No. 1907/2006化學品註冊、評估、授權及限制法規

EC No. 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
(EU) 2020/878條例：歐盟SDS新要求

Regulation (EU) 2020/878: New Requirements for EU SDS

有機溶劑中毒預防規則

#### **Toxication Prevention Regulation for Organic Solvent**

勞工作業場所容許暴露標準

Standards of Permissible Exposure Limits at Job Site

道路交通安全規則

#### **Traffic Safety Regulation**

事業廢棄物貯存清除處理方法及設施標準

Storage & Disposal Procedures and Facility Standard for Industrial Waste

## 16、其他資料Other Information

### 參考文獻

#### Reference

1. 勞動部職業安全衛生署GHS化學品全球調和制度網站  
Department of Occupational Safety and Health, GHS Chemical Global Harmonization System website  
([https://ghs.osha.gov.tw/CHT/masterpage/index\\_CHT.aspx](https://ghs.osha.gov.tw/CHT/masterpage/index_CHT.aspx))
2. 行政院環境保護署毒物及化學物質局網站  
The website of the Toxic and Chemical Substances Bureau, EPA, Executive Yuan (<https://flora2.epa.gov.tw/ToxicC/Query/database.aspx>)
3. 歐洲化學總署網站  
The website of the European Chemicals Agency (ECHA).  
(<https://echa.europa.eu/>)
4. 美國政府工業衛生師協會網站  
The website of the American Conference of Governmental Industrial Hygienists (ACGIH). (<https://www.acgih.org/data-hub-2022/>)
5. 美國職業安全衛生署網站  
The website of the Occupational Safety and Health Administration (OSHA).  
(<https://www.osha.gov/annotated-pels/table-z-1>)
6. 國際癌症研究署網站  
The website of the International Agency for Research on Cancer (IARC).  
(<https://monographs.iarc.who.int/list-of-classifications/>)

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