

# 行政院所屬各機關出國報告（出國類別：會議）

## 參加 APEC 2023 第一次資深官員會議 (APEC 2023 SOM1)

服務機關：勞動部職業安全衛生署

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派赴國家：美國

出國期間：112 年 2 月 14 日至 2 月 20 日

報告日期：民國 112 年 5 月 20 日

## 摘要

亞太經濟合作會議(APEC)本次於美國加州棕櫚泉舉行，本次第一次資深官員會議期間(SOM I)主要參與第三十屆化學對話會議(Cheical Dialogue ,CD)及綠色化學工作坊(Green Chemistry Workshop)，我國代表參與報告我國 GHS 執行與預計更新進度，另包括 APEC G.R.E.A.T. GHS 網站計畫進度，以及會員國推動 GHS 進度調查完成年度書面報告，做為我國參與回饋國際社會推動化學品安全永續目標的具體貢獻。

各經濟體面臨貿易供應鏈韌性挑戰，強調化學品在各關鍵供應鏈中發揮的關鍵作用，以及促進供應鏈韌性的激勵措施，在促進商業投資和發展的政策上，化學對話會議可以加強協調，例如對供應鏈相關基礎設施進行投資，為公司創造創新提供激勵，例如綠色安全替代化學，鼓勵由職場源頭消弭危害，亦可透過參加化學對話會議從源頭永續角度切入，持續檢視關注合作與創新學習機會。

建議我國持續參與會員國夥伴提案，共同推動包括美國、新加坡、印尼等虛擬工作小組中 GHS 版本更新指引與工具提案的國際合作。另 APEC 共同檢視聯合國化學品調和制度 GHS 紫皮書版本與各國調和進度，我國已報告更新我國版本之計畫期程，應啟動版本更新並檢視推動進度。

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## 壹、前言

「亞太經濟合作」(Asia-Pacific Economic Cooperation, 簡稱 APEC) 為 1989 年倡議而成立，藉由亞太地區各經濟體政府相關部門官員的對話與協商，帶動該區域經濟成長與發展。我國係於 1991 年加入 APEC，以"Chinese Taipei"名稱與中國大陸及香港在該年同時加入 APEC，目前仍是我國參加國際經濟合作重要的管道與平台，其中化學對話 (Chemical Dialogue, CD) 為提供 APEC 會員體共同討論化學品管理發展、海洋廢棄物與聯合國永續等相關議題的平台。

近年國際間因 Covid-19 疫情擴散，促使紐西蘭和馬來西亞等主辦國決議自 2019 年開始各式會議主要以線上方式召開，本次會議為國際疫情趨緩後第二年度以實體方式召開；基於化學產業在各 APEC 經濟體的重要性，化學對話除了加速經濟體之間化學品的貿易自由化外，另外一項重要的任務為法規制度合作以及促進化學產業的永續發展，藉由參與本次的會議，可瞭解相關之國際策略與觀察資料供國內參考，提出未來可能之建議方向以及具體合作提案，以促進化學品管理制度的合作發展，包括加速調和聯合國化學品全球調和制度(GHS)。

我國為配合國際 GHS 之推動進程以及提升保護工作者知的權利，已於 2017 年要求國內製造、處置或使用危害性化學品應符合 GHS 相關規定，我國職業安全衛生法相關之化學品管理制度，包含化學品暴露評估與分級管理、優先管理與管制性化學品管理、我國公告之化學物質清單等皆已健全，同時持續跨部會合作與環保署運作新化學物質登記制度統一窗口。我國因多年 GHS 推動經驗得以在 APEC CD 會議中獲得會員國肯定與支持，勞動部代表我國持續支持維護運作 APEC G.R.E.A.T. GHS 網站計畫，並且擔任 GHS 各會員國推動進度調查工作技術窗口，負責完成年度書面報告

向貿易暨投資委員會(Committee on Trade and Investment, CTI)回報工作進度，做為我國參與回饋國際社會推動化學品安全永續目標的具體貢獻。

## 貳、目的

- 一、報告我國協助建置資訊交換網站(GHS Reference Exchange and Tool, G.R.E.A.T)之執行維運，並報告各會員國推動 GHS 進度之調查結果。
- 二、說明我國職業安全衛生法有關化學品管理與 GHS 推動進度。
- 三、蒐集國際相關管理制度之最新資訊，以作為本部未來施政規劃之參考。

## 參、出席會議過程

日數	日期	行程
第 1 日	112/02/14(二)	臺北（出發）～美國加州(棕櫚泉)
第 2 日	112/02/15(三)	CD 化學對話業界預備會議(CD Chemical Dialogue Industry Preparatory Meeting, IPM)
第 3 日	112/02/16(四)	綠色化學工作坊 (Green Chemistry Workshop)
第 4 日	112/02/17(五)	CD 化學對話會議(CD Chemical Dialogue Meeting)
第 5 日	112/02/18(六)	美國加州(棕櫚泉)～臺北（抵達）

## 肆、會議內容與心得

本次 APEC 會議由美國主辦，第 30 屆化學對話會議(CD 30)於美國加州棕櫚泉(Palm Spring)以實體會議方式舉行，由美國貿易代表處(US Trade Representative Office)、政府代表 Mr. Kent Shigetomi 及業界代表 Mr. Sergio Barrientos 擔任共同主席，會議共分為業界預備會議、綠色化學工作坊與化學對話會議等三大議程。以下分別說明各議程會議重點摘要：

### 一、業界預備會議 (Industry Preparatory Meeting, IPM)

2 月 15 日之業界預備會議由業界代表主席 Mr. Sergio Barrientos 主持，參與者包含韓國、墨西哥、我國與美國代表，會議中由業界代表們優先說明將於 CD 正式會議中更新與討論之議題，我國發言說明我國 GHS 更新至紫皮書第八版之規劃，目前我國職業安全衛生法已全面實施 GHS 危害分類，依據我國現行 CNS 15030 標準要求業者符合第四修訂版之危害分類、標示、與 SDS 格式等，2023 年將參照紫皮書第八修訂版，進行修訂前置作業、影響評估、能量建立以及過渡期等安排，並將適時於 APEC CD 更新相關實施規劃進展，以利促進貿易與國際合作。同時感謝美國提供辦理綠色化學之工作坊，也支持並感謝本會期 GHS 虛擬工作小組中的 GHS 推廣提案的準備和未來參與，包括 GHS 推動內聚實務能量建置(Capacity building on GHS implementation convergence practices 以及印尼的提案 GHS 版次提升作法與檢核形式(Develop Preparation Checklist and Guidance on How to Upgrade to Higher GHS Version)，表示有助我國 GHS 版本提升的必要性檢視與準備工作。同時以我國供應鏈之企業經驗，支持與分享今年度美國新提案之潛在供應鏈韌性議題(supply chain resiliency)，說明我國企業供應鏈之化學物質資訊須符合法規與傳遞安全資訊之需求，希望能透過此新提案，建立可協助企業之機制或工具。以上我國支持之會員國提案，已獲得 APEC 預算通過經費支持，我國將可積極透過虛擬工作小組於適當主題參與並做出具體貢獻。

### 二、綠色化學工作坊(Green Chemistry Workshop)

2月16日我國代表參加美國主辦綠色化學工作坊，由來自各會員經濟體業界與政府之專家學者一同交流綠色化學之政策與實務。聯合國環境署特別顧問分享目前聯合國環境大會關於綠色與永續化學之相關討論，以及後續針對化學品與廢棄物管理的策略，並建議鼓勵國家發展化學品管理架構，同時考量國家間合作與趨同調和，並積極地進行資訊分享。同時聯合國環境署特別顧問亦預告聯合國已著手與各會員國進展塑膠污染之管理與協調，預計2024年前發展一項有約束力之文件。美國環保署EPA介紹美國聯邦有毒物質釋放清冊(Toxics Release Inventory, 簡稱TRI)之申報要求，並分享現行美國使用TRI資料來促進綠色化學之經驗，TRI資料之公開提供其他業界危害物質減量與防治措施之參考學習，有助於鼓勵業界使用較少危害之物質或製程，促進綠色化學之落實。我國環保署亦分享我國綠色化學物質政策與實施策略，並介紹正在建立之替代物質網站，後續將可透過網站查找替代物質危害分類資訊，並彙整分享替代物質之案例分享。

美國主導之綠色化學和化學品的健全管理計畫旨在促進知識共享交流並提升APEC會員經濟體對監管單位、業界和供應鏈之間的創新、實踐和政策認知與了解。透過綠色化學的概念有助監管單位、業界和供應鏈擴大永續化學原則的應用並實踐源頭減量措施，以推進化學品的健全管理。我國環保署化學局已有相關政策實施亦有利於跨部會共同提升危害化學品的管理需求與認知，與會會員贊同未來應持續推動相關議題與訓練課程，促進永續化學之實踐。

### 三、化學對話會議 (Chemical Dialogue, CD)

2月17日化學對話會議由政府代表主席 Mr. Kent Shigetomi 與業界代表主席 Mr. Sergio Barrientos 共同主持，共有五個會員體出席，包括智利、我國、韓國、墨西哥與美國。化學對話正式會議由政府共同主席邀請美國環境保護署EPA代表開場歡迎CD會議之展開，EPA代表強調美國今年度主辦APEC會議為了提供會員經濟體助力，加強新冠疫情後之復甦和韌性，

並推動基礎廣泛的經濟增長，訂定 APEC 2023 之三大優先主題，包括相互關聯、創新和包容(Interconnected; Innovative, Inclusive)；政府共同主席也藉歡迎致詞強調 CD 會議為 APEC 組織中為了應對化工業挑戰所特別安排的公私部門合作之機制，且將持續透過各項工作合作來達成目標；政府共同主席亦宣布此次僅有五個會員經濟體出席，未達到法定人數，須持續追蹤督促後續會議之參與率。

貿易暨投資委員會(Committee on Trade and Investment, CTI)主席介紹委員會活動最新現況，強調 CTI 三大重要領域，包含地區經濟體整合、聯合國世界貿易組織 WTO 議題與永續性，主席並建議與提醒 CD 會員應盡可能與主題連結與展現。秘書處更新 APEC 計畫提案提交與審查現況並摘要 2022 年實施之 CD 提案，包含以下計畫項目：

1. GHS 實施能量建置 (Capacity Building on GHS Implementation.)
2. 綠色化學與健全化學品管理 (Green Chemistry and Sound Chemicals Management.)
3. GHS 版次提升作法與檢核形式(Develop Preparation Checklist and Guidance on How To Update to Higher GHS Version)
4. 循環經濟中化學品回收之運用(Leveraging Chemical Recycling in a Circular Economy)
5. 遵守經濟合作組織數據相互承認 (MAD)系統 (Adherence to OECD Mutual Acceptance of Data (MAD) System)

秘書處說明今年度 6 月後 APEC 計畫提案系統將正式上線，所有提案將須透過線上系統以模板格式繳交，有助提升各會員經濟體之提案繳交流程之效率，並鼓勵各會員經濟體代表積極參與提案遞交訓練課程，以利 CD 會員向 APEC 大會爭取更多計畫提案與經費。

於法規監管合作與聚斂議程中，各會員經濟體更新法規監管進度，智利分享其衛生部與環境部基於 GHS 制度，共同制定關注化學品優先序與



風險評估程序(Procedure for the prioritization of chemicals of concern, and procedure for their risks assessment)，衛生部也批准了危害物質清單(2021 年版)，同時智利也以業界之角度分享國際已開始發展制定有關塑膠污染的法規約束相關文件；美國化學理事會(American Chemistry Council，ACC)之代表分享美國毒性物質控制法(Toxic Substances Control Act，TSCA)為了保護人體健康與環境，要求新化學物質進入市場前須進行審查潛在風險，並於必要時制定管理措施，並更新討論 TSCA 下新化學物質審查計畫之統計網頁之更新功能，網站提高對民眾、社區與利害關係人的資訊透明度，提供更多新化學物質之資訊與統計資料，促進利害關係人掌握審查流程與進度；我國環保署代表報告「關注及毒性化學物質管理法」修法與執行進度，更新關注化學物質數量，新增列管 3 類 15 種關注化學物質；我國亦報告 2023 年將參照紫皮書第 8 修訂版進行相關實施規劃研析，後續將持續在 CD 中報告與更新我國推動與實施進度，貢獻國際社會。

法規合作與聚斂虛擬工作小組分享已完成 CD 法規監管合作報告與化學品管理清單的最佳實踐，並介紹說明目前東協法規監管合作計畫(ARCP)、拉丁美洲法規合作論壇與北美自由貿易協定(USMCA)合作倡議之最新情況。同時徵求法規監管合作與融合虛擬工作小組的項目提案；美國業界提供 OECD 數據相互承認(MAD)項目的最新信息，OECD MAD 系統是協調化學品法規監管的工具，OECD 成員和非成員皆可參與；目前已有 11 個 APEC 經濟體參與。國際已積極討論擴大影響與應用，如數據是否可被其他法規監管機構運用與接受、數據有效運用之範疇等，後續 APEC 預計將與 OECD 討論 MAD 系統合作，將於 2024 年舉辦研討會。

CD 會議另一大重點主題為全球調和制度(GHS)，我國積極參與國際推動 GHS 制度與調和，2020 年度起已由澳洲手中接手年度 GHS 執行進度調查與報告之工作任務。目前持續與虛擬工作小組(VWG)共同發展年度調查問卷標準化，我國代表同時回報執行 GHS 推動 G.R.E.A.T 網站專案計畫提供各國語言標示元件，感謝各會員國之支持以及韓國與俄羅斯最新版本之元件更新，我國持續擴展網站中功能與頁面，促進 APEC 區域 GHS 的

調和與資訊流通，將持續提供友善平台與經驗以貢獻 CD 會議調和各經濟體 GHS 制度之目標，推動 GHS 版次調和。我國進度報告受到政府共同主席肯定我國具體財務與行政貢獻，持續更新計畫內容以及與各經濟體合作內聚斂促進貿易與調和。

美國業界代表 GHS 虛擬工作小組，說明 GHS 執行問卷調查最新進度，其他相關活動包含建立 GHS 實施比較文件以及不同 GHS 修訂版本實施的衝擊影響分析；工作小組呼籲 APEC 經濟體完成 2023 年 GHS 調查，預計將會於 2023 年 7 月於閉會期間公開聚斂報告徵求意見，同時指出歐盟已新增 5 項新危害分類，建議 CD 後續針對是否就 5 個新的危險類別進行調和修訂進行意見蒐集與討論，提交報告給聯合國 GHS 專家小組委員會（UNSCEGHS）。

美國業界代表新加坡業界提供“GHS 實施聚斂之能量建立計畫”執行情況，該計畫已於 2022 年 7 月至 12 月舉行三階段網絡研討會。執行重點包含 GHS 介紹、現行 GHS 實施（以及當前的實施差異）以及 GHS 收斂聚斂之原則（聚斂實際案例和潛在的執行方向）等，以促進各會員經濟體對 GHS 之認知。

我國海委會於海洋廢棄物議程中代表分享 APEC 地區海洋垃圾回收產品可追溯性機制的良好實踐，相關議題屬有立即建設性之展現領域，將鼓勵更多的投資、更循環和永續的發展與貿易，這部分主題將持續由環保署、海巡署等跨部會持續參與。

資訊交換虛擬工作小組代表說明持續發展化學品監管資訊資料庫與互動式指南，該指南之目標改善和促進 CD 會員經濟體之化學品管理資訊共享與更新。該代表亦分享了對未來可能開展的活動的想法，包括：關於化學品管理實踐的信息和知識共享、促進行業與政府之間的合作及促進與其他國際組織的合作等。

## 伍、建議

此次會議觀察各經濟體面臨貿易行動的一個關鍵挑戰是疫情後之供應鏈韌性，強調化學品在各關鍵供應鏈中發揮的關鍵作用，以及促進供應鏈韌性的激勵措施，供應鏈間產品資訊的溝通與取得之促進合作，顯示企業持續參與化學對話會議平台的好處，考量職業健康與安全在供應鏈韌性中扮演關鍵角色，我國將持續關注供應鏈永續議題。

未來在化學對話會議可加強協調，例如：對供應鏈相關基礎設施進行投資；制定可預測的、有規則可循的貿易政策以避免貿易障礙；確保獲得資源和投入；加強工作者技能；維持一個運行良好、以科學為基礎的管理體系，以及為公司創造創新提供激勵等，持續對國際貿易與各永續發展議題合作做出具體貢獻。

針對綠色化學與供應鏈韌性提升之未來可能提案之規劃，我國勞動部現階段已啟動致癌物質預防藍圖，未來可將綠色化學概念推廣至事業單位，取代致癌等高危害性物質之使用，相信後續化學對話會議將可從源頭永續角度切入，並將支持國際相關提案，有利於我國從中取得能量建置資源以及貢獻我國經驗的機會。

另我國已以 GHS 紫皮書第 8 版為調和目標，亦將著手評估我現行 CNS 國家標準更新的必要性與可行性，建議評估業者可能面臨之困境，辦理因應配套措施與行政作業。

我國亦將持續透過年度 GHS 執行進度調查與報告回報工作任務，及擴大 GHS 推動 G.R.E.A.T 網站專案計畫成果，與各會員國互動交流與合作，並延續凝聚未來我國自立提案時，取得澳洲、新加坡及美國等各會員國贊助支持的能量。

## 陸、附錄

### (1) 化學對話會議 CD30 會議記錄

#### 30<sup>th</sup> Chemical Dialogue (“CD30”)

*February 17, 2023*

*Palm Springs, California, United States*

The thirtieth Meeting of the APEC Chemical Dialogue (“CD” or “Dialogue” (“CD30”) was convened in-person and was attended by 5 APEC economies; including Chile (Government); Chinese Taipei (Government & Industry); The Republic of Korea (Government); Mexico (Industry); the United States (Government & Industry). The CD30 Plenary meeting was co-chaired by Mr. Kent Shigetomi as the Government Co-Chair and Mr. Sergio Barrientos as Industry Co-Chair.

#### CHEMICAL DIALOGUE DAY 1

9:00 – 9:55

AGENDA ITEM 1

WELCOME AND INTRODUCTIONS

#### 1.1. Welcome Note from the United States United States

The Government Co-Chair opened the 30th Chemical Dialogue and thanked all participants for joining. He then turned the floor over to the United States for welcoming remarks.

A representative from the U.S. Environmental Protection Agency (EPA) emphasized the United States’ three main themes for APEC 2023: Interconnected; Innovative, Inclusive. The representative highlighted future APEC meeting dates, including the 2<sup>nd</sup> Senior Officials and Related Meetings (SOM2) from May 14-26 in Detroit, MI; the 3<sup>rd</sup> Senior Officials and Related Meetings (SOM3) from July 29-August 21; and a Concluding Senior Officials Meeting (CSOM) in November in San Francisco, California.

#### 1.2. Welcome from Government Co-Chair Government Co-Chair

After the United States’ welcome, the Government Co-Chair provided introductory remarks, and noted that the CD is a unique public-private mechanism to address challenges to the chemical industry and can benefit all stakeholders.

#### 1.3. Welcome from Industry Co-Chair Industry Co-Chair

The Industry Co-Chair thanked participants for their in-person engagement, and provided an update from the CD industry pre-meeting on the 15th of February. The industry pre-meeting discussed supply chain resiliency, and how it relates to recycling and circular economy; GHS revisions; potential submissions by the CD to the SAICM process; and potential CD work related to the development of alternative fuels.

#### 1.4. **Delegation Introduction / Adoption of Meeting Agenda**

**Co-Chairs**

The Government Co-Chair opened the floor for delegation introductions and adoption of the meeting agenda. Five APEC economies were present for CD30, so quorum was not reached.

Proposed Action Item(s): The CD:

- Endorsed the CD30 agenda

#### 1.5 **Toxics Release Inventory**

**U.S. Government**

Dr. Steve Devito, from the Office of Chemical Safety and Pollution Prevention at the U.S. EPA, gave a presentation on the Toxics Release Inventory (TRI), a resource for learning about toxic chemical releases and pollution prevention activities reported by industrial and federal facilities. TRI data support informed decision-making by communities, government agencies, companies, and others.

After the presentation, the Industry Co-Chair intervened, asking if the inventory is provided in an aggregated format. Dr. Devito noted that information can be found at the facility, parent company, or sector level. Chinese Taipei intervened, asking if industry has to automatically connect their pollution data to the inventory/EPA. Dr. Devito responded that facilities are required to report source reduction data by law.

#### 1.6 **Intergovernmental Negotiating Committee (INC) to develop an international legally binding instrument on plastic pollution.**

**UNEP**

Ms. Hilary French from the U.N. Environment Programme (UNEP) provided an overview of the INC process to develop an international legally binding instrument on plastic pollution. She noted it could include both binding and voluntary approaches based on a comprehensive approach that addresses the full life cycle of plastic. UNEP members are aiming to negotiate the completion of the instrument by the end of 2024. INC-1 took place from November 28 – December 2, 2022 in Punta del Este, Uruguay.

Next steps in the INC process include the Secretariat presenting an options paper in preparation for INC-2. Submissions for the options paper were received through early February. INC-2 will be held in May during the week of May 29 (in-person only); and INC-3 will be held November 2023.

After the presentation, the Government Co-Chair intervened, noting he was impressed by the aggressive target date, and asked if intersessional work is expected to be done. Ms. French noted that there is no formal intersessional process, but there is a submission process, and the Secretariat organizes webinars to allow people to present their submissions. The Industry Co-Chair also intervened, asking how the private sector is evolved in the process. Ms. French noted that industry is participating in the process and that it is very welcome and important, given the private sector's expertise.

10:15 – 10:35	AGENDA ITEM 2	APEC 2022 PRIORITIES AND MANAGEMENT UPDATE
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2.1 **Committee on Trade and Investment Chair Update (video)** **CTI Chair**

The Chair of the Committee on Trade and Investment provided an update on the Committee's activities via pre-recorded video. The Chair highlighted three areas of importance for the CTI, including economic integration in the region; the WTO (and how the CD may contribute to the implementation of MC-12 outcomes); and sustainability, including trade in environmental goods.

After the video, the Government Co-Chair called on delegates to keep these ideas in mind for concept notes and noted he will be meeting with the CTI Chair when the latter arrives in Palm Springs and will report any additional feedback to the CD.

2.2 **APEC Secretariat Update** **APEC Secretariat**

The APEC Secretariat provided an update on APEC project proposal submissions for 2022. Overall, there were 110 funded projects, and 105 completed projects, totaling \$8.6 million. The APEC Secretariat emphasized the CD projects implemented or completed in 2022, including:

- CD 01 2022A – Capacity Building on GHS Implementation;
- CD 02 2022A – Green Chemistry and Sound Chemicals Management;
- CD 03 2022A – Develop Preparation Checklist and Guidance on How To Update to Higher GHS Version;
- CD 01 2022S – Leveraging Chemical Recycling in a Circular Economy; and
- CD 02 2022S Adherence to OECD Mutual Acceptance of Data (MAD) System.

The APEC Secretariat emphasized that the internal deadline for Project Session 1 is February 27, 2023 and there is a new concept note template and online system for APEC project proposals. The APEC Secretariat noted that the Government Co-Chair term ends after SOM1 and welcomed all economies to nominate a candidate.

The Government Co-Chair asked the APEC Secretariat to circulate the dates for training sessions for project proposal submissions, noting that not all economies may be comfortable implementing a project, but everyone has good ideas. The United States intervened, noting that it is happy that the project process is now moving to a formal system, and asked if the new system affects new projects. The APEC Secretariat noted that the new process does not impact current projects, only things submitted after June.

<b>10:35-11:10</b>	<b>BREAK</b>	
<b>11:10-12:10</b>	<b>AGENDA ITEM 3</b>	<b>REGULATORY COOPERATION AND CONVERGENCE</b>

### 3.1. Regulatory Updates

### Government Co-Chair

The Government Co-Chair noted the CD30 did not meet quorum, and opened the floor to regulatory updates. Chile, Chinese Taipei, and the United States provided updates.

Chile shared that the Chilean Ministry of Health and the Ministry of Environment are both developing the "Procedure for the prioritization of chemicals of concern, and procedure for their risks assessment". This prioritization process is based in GHS regulation. Additionally, Chile noted that Decree 60 from the Ministry of Health, published last August, modifies the supreme decree n° 43, which approves the hazard substances storage. Ministry of Health Resolution n° 15, published last January, approves the list of substances classified in Resolution No. 777 (2021). Finally, the International Chemical Agenda Advisory Committee, a public-private committee, has begun work on an initiative to develop an international legally binding instrument on plastic pollution.

Chinese Taipei echoed the CD's recommendation on GHS implementation convergence, and noted that Chinese Taipei's Occupational Safety Health Administration is leading the initiative to prepare for GHS Purple Book adoption from the current 4<sup>th</sup> revised version to the 8<sup>th</sup> revised version. Future work on technical reviews, impact assessments, public consultation, capacity building and transitional period arrangement will be scheduled in 2023.

The United States discussed the updated features of the New Chemicals Review Program's statistics webpage, highlighting the efforts to bring greater information and transparency to

users/the general public. The update includes additional information and metrics on the Agency's review of new chemicals under the Toxic Substances Control Act (TSCA), increasing transparency for the public, the regulated community, and other stakeholders. The new information and features help users understand EPA's new chemicals review process, and trends, while highlighting the progress the program has made. TSCA requires EPA to review the potential risks of new chemicals before they enter the U.S. marketplace and, when necessary, put safeguards in place to protect human health and the environment.

### 3.2. Virtual Working Group on Regulatory Cooperation and Convergence

U.S.  
Industry

The Co-Chair of the Virtual Working on Regulatory Cooperation and Convergence (VWGRCC) provided an update on the group's latest activities. She noted that in 2022, the VWGRCC finalized the following projects: CD Regulatory Cooperation Report; Best Practice in Chemical Regulation Checklist; and the APEC CD Compendium: Methods, Tools, and Approaches for Risk Assessment. She also provided an update on the ASEAN Regulatory Cooperation Project (ARCP), the Latin American Regulatory Cooperation Forum, and the USMCA Regulatory Cooperation Initiative.

The VWGRCC Industry Co-Chair noted the VWGRCC is seeking feedback on what types of projects APEC economies might be interested in for the coming year, and all topics are welcome. Additionally, the Co-Chair asked how the previously created RCC documents are being used, and if they should be updated or adapted to promote their use. After the presentation, the Government Co-Chair asked if both government and industry representatives were permitted to attend the USMCA event. The VWGRCC Industry Co-Chair clarified that both government and industry are invited and welcome to attend.

Potential Action Item(s): The CD:

- Called for project proposals for the VWG on Regulatory Cooperation and Convergence
- Called for nominations for a government Co-Chair of the VWG on Regulatory Cooperation and Convergence
- Welcomed comments on two questions: How are the previously created documents being used? Should they be updated or adapted to promote their use?

### 3.3. OECD Mutual Acceptance of Data Project Update

U.S. Industry

U.S. Industry provided an update on the CD OECD Mutual Acceptance of Data (MAD) Project, which was completed in 2022. The OECD MAD System is a tool to harmonize chemical regulation. Both OECD Members and non-members can participate in MAD; there are currently 11 APEC economies that participate.

The OECD MAD system project focused on sharing best practices and benefits of the system through a webinar hosted on November 22, 2022. The OECD, US FDA, and Malaysia served as



speakers and discussed the positive impacts of the program, including that: data is accepted by other regulatory authorities and data is valid for use in product registration worldwide. Next steps in the project include partnering with the OECD MAD system for an APEC workshop in 2024.

<b>13:30-14:30</b>	<b>AGENDA ITEM 4</b>	<b> Globally Harmonized System for the Labelling and Classification of Chemicals (GHS)</b>
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4.1. **Virtual Working Group on GHS**

**U.S. Industry**

On behalf of the Industry Co-Chair of the VWG on GHS, U.S. Industry provided an update on GHS activities, including providing an update on the GHS survey, the GHS Implementation comparison document, and an impact analysis of the implementation of different GHS revisions.

The U.S. Industry also raised the possibility of APEC CD engaging with the UN GHS Sub-Committee. The EU has proposed five new hazard classes, and the VWG on GHS welcomed CD thoughts on whether there is an opportunity for engagement and outreach.

Potential Action Item(s): The CD:

- Called for APEC economies to complete the 2023 GHS survey
- Called for nominations for a government Co-Chair of the VWG on GHS
- Took note of expected circulation of convergence report intersessionally for comment, likely in July 2023
- Requested CD input on whether to draft a submission to be submitted to the UNSCEGHS with respect to the five new hazard classes

4.2. **Status of the G.R.E.A.T. Project**

**Chinese Taipei**

Chinese Taipei provided an update on the G.R.E.A.T. project. The G.R.E.A.T. project was established to facilitate international GHS implementation and international trade since May 2010. It is now available in 37 languages, and the template is updated to the 8<sup>th</sup> revised version. Chinese Taipei has also noted it has Convergence reports from 2011 to 2022, and recently received Korea’s and Russia’s update.

The Government Co-Chair thanked Chinese Taipei for providing the financial/administrative support of the website to be kept up to date.

Potential Action Item(s): The CD:

- Thanked Chinese Taipei for maintaining the website (and supporting it financially)

4.3. **Capacity Building GHS Implementation Convergence Project** **U.S. Industry**

The U.S. Industry provided an update on the “Capacity Building GHS Implementation Convergence Project” on behalf of Singapore Industry. The goal of the project is to raise awareness on GHS convergence practices. There are three phases of webinars planned from July – December 2022. The first phase focuses on GHS Introduction. The second phase focuses on current GHS Implementation (current differences in implementation). The third phase focuses on Convergence Principles (practical examples of convergence and potential way forward).

Proposed Action Item(s): The CD:

Endorsed “Capacity Building on GHS Implementation Convergence” on February 2, 2023

<b>14:30-14:45</b>	<b>AGENDA ITEM 5</b>	<b>DATA EXCHANGE</b>
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5.1. **Virtual Working Group on Data Exchange** **Industry Representative**

A representative on behalf of the Virtual Working Group on Data Exchange provided an update on the latest working group activities. The representative provided an update on the Data Exchange Interactive Guide. The goal of the guide is to provide access to the latest reliable regulatory information and to improve and facilitate information sharing. Both the template and the user interface were updated in 2022. In 2023, the Working Group on Data Exchange will focus on: implementing a search function in the guide’s test version; aligning the interactive guide with APEC website guidelines, and endorsing the guide’s user interface. In addition, it is proposed to fill in the above-mentioned templates of the Interactive Guide for five APEC economies and conduct a verification procedure for templates by representatives of these economies.

The Representative also shared ideas for possible future activity, including: information and knowledge sharing on chemical management practices; enabling cooperation between industry and government; and enabling cooperation with other international organizations. The Representative requested feedback on the thought-starter shared by the CD.

Proposed Action Item(s): The CD:

- Seeks feedback on the VWG Data Exchange thought-starter
- Noted the action plan from the VWG on Data Exchange

14:45-15:45

AGENDA ITEM 6

MARINE DEBRIS AND SUSTAINABILITY

6.1. **Green Chemistry and the Sound Management of Chemicals Project Update**

**U.S. Government**

A representative from the U.S. EPA provided an update on the project “Green Chemistry and the Sound Management of Chemicals”, developed to promote knowledge sharing and raise awareness within APEC member economies on innovations, practices, and policies among regulators, industry, and supply chain stakeholders to extend the application of sustainable chemistry principles and implementation of source reduction practices to advance the sound management of chemicals.

The U.S. representative thanked the Secretariat and colleagues for help in organizing the green chemistry workshop, which was held in-person on February 16, 2023. The U.S. thanked everyone for presentations and participation, and noted that it will synthesize workshop results and relevant background information into a project report that will be shared with all delegates. The United States welcomed additional information to be added to the project report.

6.2. **GOS Project Update: Services that Support the Clean-up of Marine Debris**

**AusPECC**

A representative from the Australian Committee for Pacific Economic Cooperation (AusPECC) provided an update on the Group on Services (GOS) project “Services that support the clean-up of marine debris.” For this project, the GOS has produced a policy brief on cleanup services, identified a number of barriers to delivery of cleanup services, and encouraged enablement of a market on such services.

The representative encouraged additional collaboration between GOS and the CD, and noted the need to focus on both prevention and remediation, emphasizing it is important to do more to implement existing measures effectively and recommended non-binding guidelines on marine debris clean-up services. Australia, Japan, and the U.S. have developed a draft set of guidelines (non-paper) in relation to this project, with the goal to seek endorsement at the Ministers Responsible for Trade in May, with the aim to promote trade, investment, and market collaboration.

6.3. **OFWG Project Update: OFWG 07 2021A - Good Practices for Traceability Mechanism of Marine Debris Recycled Products in the APEC Region**  
**Chinese Taipei**

Chinese Taipei provided an update on a one-day hybrid event that will be held in Taipei on March 24. Registration is open from January 19-February 28, 2023. There are 11 participants funded to participate (one from each travel-eligible economy). A pre-event survey is open from March 1-12.

6.4. **APEC Chemical Recycling Project Update** **U.S. Industry**

The U.S. Industry provided an update on the completed chemical recycling project. The 1st webinar was held in July, 2022 (25 participants from 8 economies). Topics included the role of technology and different types of advanced recycling. Challenges identified included lack of investment, lack of scalability, and lack of access. The 2<sup>nd</sup> webinar was held in November, 2022 (25 participants from 11 APEC economies), which focused on chemical resin production and scaling up chemical recycling globally.

The Project Overseer requested feedback on future discussions of chemical recycling through a survey shared before CD30. Results found that 65% believe the biggest obstacle to chemical recycling is infrastructure, and the majority of respondents were interested in having more government speakers participate in discussions. After the presentation, the U.S. intervened to note that the U.S. EPA has published an Advance Notice of Proposed Rulemaking (ANPRM) on potential regulations for pyrolysis and gasification units. The U.S. noted that a lot of comments were received and they are digesting the feedback. The U.S. also noted it would welcome any studies that other economies have done on chemical recycling impact and promised to provide updates to the CD on the regulatory developments as they happen on the ANPRM.

Proposed Action Item(s): The CD:

- Encouraged economies to complete the survey [2023 APEC Chemical Recycling Survey \(SOM1\)](#) ([surveymonkey.com](#)) as it remains open for completion

6.5. **Virtual Working on Marine Debris** **Coordinator for the VWG on Marine Debris**

The Coordinator for the Virtual Working Group on Marine Debris provided an update on the Working Group's activities. This included an overview of the working group's objectives, the documents that guide the virtual working group, and the various marine debris and waste

management projects across APEC workstreams, including the OFWG, the Group on Services (GOS), the Steering Committee on Economic and Technical Cooperation (SCE), and the Energy Working Group (EWG). The coordinator announced the creation of a marine debris blog to be posted on the website, and the request for nominations for new Virtual Working Group on Marine Debris co-chairs.

Proposed Action Item(s): The CD:

- Called for APEC economies to submit marine debris blog submissions to be considered for the VWG on Marine Debris website
- Called for nominations for a government and industry co-chair for Virtual Working Group on Marine Debris

<b>15:45-16:00</b>	<b>AGENDA ITEM 7</b>	<b>MEETING SUMMARY AND NEXT STEPS</b>
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7.1. **Meeting Summary**

**APCIC**

A representative from APCIC summarized the CD discussions and read the list of agreed upon action items for revision and endorsement by delegates. Because quorum was not reached, action items were proposed by the CD, but could not be endorsed without circulation to the full distribution list for intersessional endorsement by all economies.

7.2. **Document Classification**

**APEC Secretariat**

The APEC Secretariat reviewed the Document Classification List and noted it would circulate the Document list after the CD for approval.

7.3. **Closing Remarks**

**Government Co-Chair**

The Government Co-Chair and the Industry Co-Chair thanked the APEC Secretariat and the CD participants for engaging in CD30 , encouraged them to attend the next Chemical Dialogue scheduled for the first or second week of August in Seattle, WA and closed the meeting.

\* \* \*

### (3) 我國報告 GHS 網站計畫進度與成果

## Update on the G.R.E.A.T. Project

2022 APEC SOM III 29<sup>th</sup> Chemical Dialogue

23 AUGUST 2022

### Background

The APEC GHS Clearinghouse Website Project (the GHS Reference Exchange and Tool (G.R.E.A.T.) Project) was established to facilitate international GHS implementation and international trade. With support from APEC economies, Chinese Taipei developed the GHS Clearinghouse Website to provide GHS labeling elements and relevant information from member and non-member economies around the world. The website was launched in May 2010. Currently Chinese Taipei serves as the webmaster to maintain the website.

### Progress to Date

In the past few years, Chinese Taipei continued to update and maintain the G.R.E.A.T. website with APEC member economies' kindly supports. As of July 2022, there have been over 420,000 visits to the website from all over the world. The G.R.E.A.T. website was revised in 2017 to align with APEC new website guidelines and was established with a new translation function from EU R phrase to GHS H statement and a new page for the progress of UN GHS harmonized classification. According to the suggestion from APEC Secretariat, all of languages sorting format had been consistence with APEC official website. In addition, other significant developments of the G.R.E.A.T. website were as follows.

- ❖ Uploaded APEC member economies' annual GHS Implementation and the Convergence Reports from 2011 to 2021 collected by Australia and the Virtual Working Group on GHS (VWGGHS).
- ❖ Furnished GHS labelling elements in 38 kinds of different languages, including 12 languages from 12 member economies (Australia, Chile, People's Republic of China, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Russia, Thailand, Viet Nam and Chinese Taipei) and 26 languages from European countries.
- ❖ Updated the template version of GHS labelling elements provided by G.R.E.A.T. website to GHS Rev. 4 and Rev. 7, in consideration of APEC member economies' GHS implementation progress.
- ❖ Developed visualization of the updated GHS implementation status in APEC region to present the survey results of the annual APEC CD GHS Implementation Convergence Report from the Virtual Working Group on GHS (VWGGHS).
- ❖ Circulated a promotion letter to the CD economy focal points for promoting the use of the G.R.E.A.T. website resource in APEC member economies.

- ❖ Provided links to website of status and update of GHS implementation from economics, such as UNECE GHS webpage, OECD eChemPortal and Japan NITE CHRIP and NITE GHS information.

## Next Steps

Chinese Taipei would update the infographics in accordance with the GHS Implementation Convergence Questionnaire 2021-2022 and update the GHS labelling element template to GHS Rev. 8 in line with APEC member economies' progress.

To facilitate successful implementation of GHS, we encourage member economies to streamline the GHS labeling elements in different languages, and to provide the latest GHS implementation status, including the implementation timeline, and any related GHS resource web links. Chinese Taipei continues to host and maintain the G.R.E.A.T. website as our support to APEC CD Shared Goal 1 MRT's Instruction of 2016 Progress Update, and international GHS implementation.

## References

- ❖ APEC GHS Clearinghouse Website Project (the G.R.E.A.T. Project)  
<http://great.osha.gov.tw/ENG/index.aspx>
- ❖ GHS Introduction Website (English):  
[http://ghs.osha.gov.tw/ENG/masterpage/index\\_ENG.aspx](http://ghs.osha.gov.tw/ENG/masterpage/index_ENG.aspx)
- ❖ GHS Technical Support (SAHTECH) and Focal Point  
TEL: 886-6-293-7770 FAX: 886-6-293-8810
- ❖ Occupational Safety and Health Administration (OSHA), Ministry of Labor (MOL)  
TEL: 886-2-8995-6666 FAX: 886-2-8995-6665
- ❖ The G.R.E.A.T. Project Overseer Contact: [CCChen@sahtech.org](mailto:CCChen@sahtech.org) Jean Chen (Ms.)

### (3) 我國報告 GHS 網站計畫進度與成果(簡報)



## Update on the G.R.E.A.T. Project

Item 4.2 Status of the G.R.E.A.T. Project

Chinese Taipei

2023/2/17

### Background and updates-1

- The APEC GHS Clearinghouse Website Project (the GHS Reference Exchange and Tool) was established to facilitate international GHS implementation and international trade since May 2010.
- As of Jan 2023, there have been over 500,000 visits to the website from all over the world.
- Contributions from 12 member economies (Australia, Chile, People's Republic of China, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Russia, Thailand, Viet Nam and Chinese Taipei) with updates.



# Background and updates-2

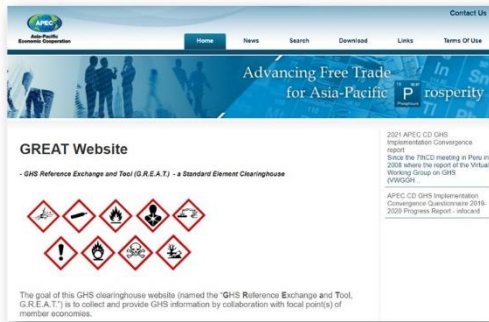
- The Labelling Elements of Purple Book template is updated to Rev. 8<sup>th</sup>, 2019
- Uploaded the 2022 APEC CD GHS Implementation Convergence Report.
- Economies are welcome to provide the latest version of GREAT Tool in line with the revision of GHS adopted.



Economy (Language)	GHS Version
Australia (English)	Rev.2, 2007
Chile (Spanish (Español))	Rev.2, 2007
People's Republic of China (Simplified Chinese)	Rev.2, 2007
Indonesia (Bahasa Indonesia)	Rev.4, 2011
Japan (Japanese)	Rev.4, 2011
Republic of Korea (Korean)	Rev.6, 2015
Malaysia (Bahasa Malaysia)	Rev.2, 2007
Philippines (English)	Rev.2, 2007
Russia (Russian)	Rev.7, 2017
Chinese Taipei (Traditional Chinese)	Rev.4, 2011
Thailand (Thai) - unofficial	Rev.3, 2009
Viet Nam (Tiếng Việt)	Rev.2, 2007
European Union (EU)	Rev.2, 2007

## The G.R.E.A.T. Project

<http://great.osha.gov.tw/ENG/index.aspx>



**二氯乙醚 (Dichloroethyl ether)**

**危險 Danger Nguy hiểm Berbahaya อันตราย**

危害成分 Hazard ingredient: 二氯乙醚 (Dichloroethyl ether)

危害警告訊息 Hazard statement:

易燃液體和蒸氣 Flammable liquid and vapour	致命吸入 Fatal if inhaled	皮膚接觸致命 Fatal in contact with skin	吞食有毒 Toxic if swallowed	造成輕微皮膚刺激 Causes mild skin irritation	造成嚴重眼刺激 Causes serious eye irritation	懷疑致癌 Suspected of causing cancer
Chết nếu hít phải Chết lỏng và hơi dễ cháy	Chết nếu tiếp xúc với da	Ngộ độc nếu nuốt phải	Gây kích ứng da nhẹ	Gây kích ứng mắt nghiêm trọng	Nguy ngờ gây ung thư	
Cairan dan uap mudah menyala	Fatal jika terhirup	Fatal jika kontak dengan kulit	Toksik jika tertelan	Menyebabkan iritasi kulit derajat sedang	Menyebabkan iritasi mata yang serius	Diduga menyebabkan kanker
خطرจากการติดไฟของเหลวและไอระเหย	เป็นอันตรายหากสูดดมอาจถึงแก่ชีวิต	เป็นอันตรายหากสัมผัสกับผิวหนังอาจถึงแก่ชีวิต	เป็นอันตรายหากกลืนเข้าไป	เป็นอันตรายต่อผิวหนัง	เป็นอันตรายต่อสายตาอย่างรุนแรง	มีความเสี่ยงต่อการก่อตัวของมะเร็ง

危害防範措施 Precautionary Statement:

保持容器密封 Keep container tightly closed.	存放在良好通風地方 Store in a well-ventilated place.	在通風不足、須戴呼吸器防護用具 In case of inadequate ventilation wear respiratory protection.	立即脫掉所有沾染的衣服 Take off immediately all contaminated clothing.	如果治療或留意 If exposed or concerned: Get medical advice/attention.	緊密封閉、遠離火源 Tighten caps, keep away from fire.	儲存在良好通風地方 Store in a well-ventilated place.	在通風不足、須戴呼吸器防護用具 In case of inadequate ventilation wear respiratory protection.	立即脫掉所有沾染的衣服 Take off immediately all contaminated clothing.	如果治療或留意 If exposed or concerned: Get medical advice/attention.
Giữ bao bì đóng kín, Lưu trữ trong môi trường thông thoáng.	Mang đồ bảo hộ hô hấp trong trường hợp hệ thống thông gió không đảm bảo	Ngay lập tức cởi bỏ tất cả quần áo bị nhiễm bẩn, NEU tiếp xúc hoặc quan ngại: Hối ý kiến tư vấn y tế.	Jaga wadah tertutup kecap Simpan di tempat berventilasi baik.	Dalam kasus kekurangan ventilasi, pakailah pelindung saluran pernafasan.	Perhatikan! Jelaskan segera seluruh pakaian yang terkontaminasi jika terpapar atau di khawatirkan: Dapatkan nasehat/perhatian pengobatan	เก็บภาชนะที่ปิดสนิท เก็บในที่ที่มีการระบายอากาศที่ดี	ในกรณีที่การระบายอากาศไม่เพียงพอ ควรสวมหน้ากากป้องกันทางเดินหายใจ	ถอดเสื้อผ้าที่ปนเปื้อนออกทันที	หากสัมผัสหรือกังวล: ขอคำแนะนำทางการแพทย์

製造者、輸入者或供應者: 好安心化學材料有限公司 / 台南安平區府前街41號 / 06-2937770

※更詳細的資料, 請參考安全資料表



- ❖ The G.R.E.A.T. Project Overseer Contact: [CCChen@sahtech.org](mailto:CCChen@sahtech.org) Jean Chen (Ms.)
- ❖ APEC GHS Clearinghouse Website Project (the G.R.E.A.T. Project)  
<http://great.osha.gov.tw/ENG/index.aspx>
- ❖ GHS Introduction Website (English):  
[http://ghs.osha.gov.tw/ENG/masterpage/index\\_ENG.aspx](http://ghs.osha.gov.tw/ENG/masterpage/index_ENG.aspx)
- ❖ GHS Technical Support (SAHTECH) and Focal Point  
TEL: 886-6-293-7770 FAX: 886-6-293-8810
- ❖ Occupational Safety and Health Administration (OSHA), Ministry of Labor (MOL)  
TEL: 886-2-8995-6666 FAX: 886-2-8995-6665

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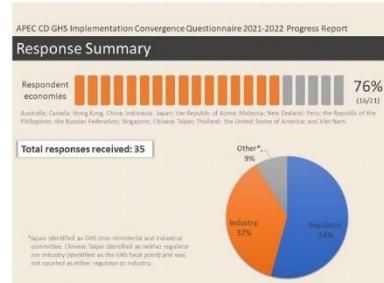
## Continuing Work



- GHS Implementation and the Convergence Reports from 2011 to 2022
- Infographics in accordance with the GHS Implementation Convergence Questionnaire
- To support GHS project outcomes and deliverables e.g., best practice principles and its check list tools
- Updates to newer version(s) and updates from GHS focal points
- Chinese Taipei continues to host and maintain the G.R.E.A.T. website.

Support to APEC CD revised Shared Goal 1 ; to facilitate trade and raise the standard of sound management of chemicals by expanding and supporting regulatory cooperation and regulatory alignment in the region.

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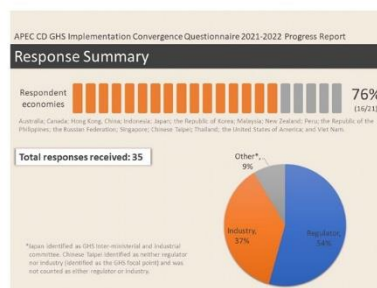


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## 柒、會議活動照片



圖一 出席綠色化學工作坊



圖二 出席 CD 化學對話會議情形



圖三 我國代表出席 CD 化學對話會議



圖四 出席 CD 化學對話會議合照