



Overview

International Stage for Additives

Objectives of Database and Risk Assessment Framework

- Support chemical management capacity building in developing economies
- Increased transparency regarding chemicals, including plastic additive use
- Aggregate existing health, environmental, & chemical management determinations
- Providing stakeholders with the tools and resources necessary to inform national, riskbased chemical management decisions

Plastic Additive Database



International Stage and Plastic Additives

Global Framework on Chemicals (GFC)

- Only overarching chemicals management framework at the international level
- ICCA 30 x 30 Ambition to help establish chemical management systems in 30 countries
 - ICCA is the second largest contributor to the GFC fund

UNEP led negotiations of an International Legally Binding Instrument (ILBI) on plastic pollution, with a focus on the full lifecycle

- August 2025 Phase 1 completed 13,375 chemicals in total
 - 4,549 chemicals verified plastic additives in commerce
- September 2025 December 2027 Phase 2
 - Add additional government and other industry data with regular updates
 - Screening level risk assessment tool



Enabling Transparency for Additives

Additives in Commerce Database

Comprehensive, tying use information with safety and regulatory data



Connect with existing regulatory and toxicological data to aid in risk assessment



Actively seeking collaborations and input from regulatory, academic, and NGO partners through roundtable discussions

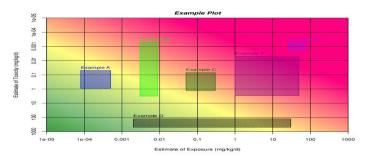


Developed for governments, academics and NGOs

Risk Assessment Framework CCCTOC



- Developing a framework tailored to the unique challenges of assessing chemicals in polymer matrices in initial use and post-recycling
- Provides a robust scientific foundation to support chemical management and regulation



Health and Environmental Sciences Institute (HESI) www.risk21.org





Information Sources

ICCA Plastic Additives Database

- Enhances information in UNEP Report (13k)
- "Go to" source for integrated plastic additive information
 - Government assessments and datasets
 - Licensed data

Chemical Abstracts Service (CAS)



CompTox Chemicals Dashboard v2.5.3

Additives in Commerce

- Industry survey to identify key metrics
 - "In-commerce" the past 10 years
 - Use info, polymer type, and typical concentration
- SpecialChem
 - Al assisted curation of company product catalogues







ICCA

Database Toxicology and Regulatory Statistics



NUMBER OF DATABASE CHEMICALS FOUND ON REGULATORY INVENTORIES



13,375 total chemicals

- Monomers to be added
- ~86% have accessible tox data to inform a screening-level risk assessment

4,549 verified plastic additives in commerce

- 90% have accessible tox data
- Additional work is ongoing for the remaining 10%
 - Pigments

Chemical Inventory Listings

- 89.2% (11,924) of the 13,375 chemicals listed on an inventory
- 94.5% (4,300) of the plastic additives in commerce are already referenced
 - Over 70% \are listed on 5 or more inventories



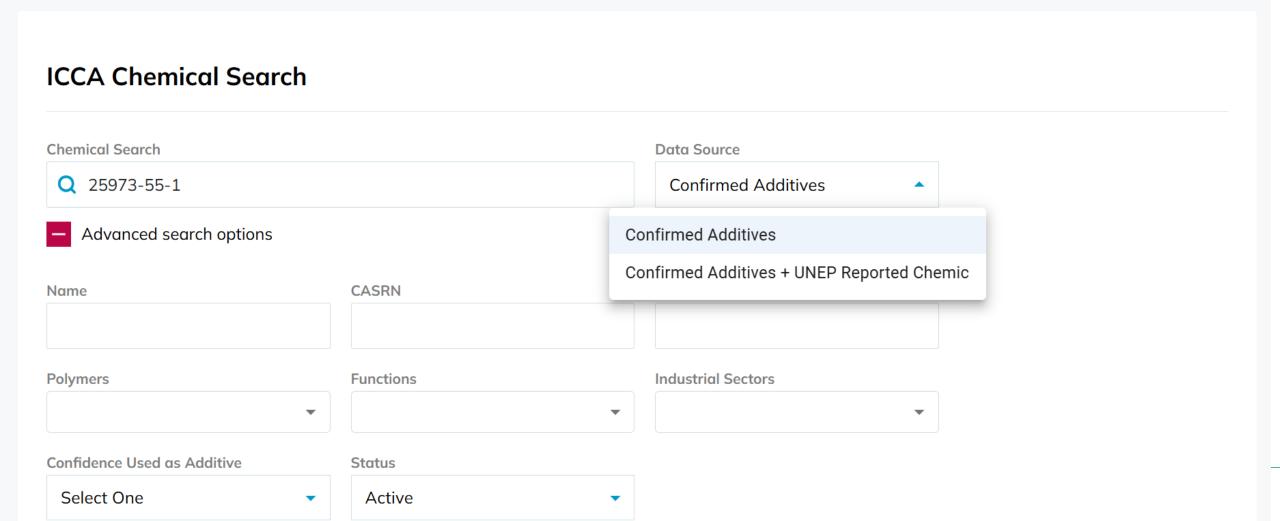
ICCA Plastic Additives Database Demo





Search & List View

Search → Search & List View





CASRN	Name	InChlKey
<u>25973-55-1</u>	2-(2-Hydroxy-3,5-di-tert-pentylphenyl)benzotriazole	ZMWRRFHBXARRRT-UHFFFAOYSA-N



10/24/2025 DRAFT – FOR DISCUSSION ONLY 9

CHEMICAL IDENTITY

PHYSICAL CHEMICAL **PROPERTIES**

USE

CLASSIFICATION & LABELLING

REGULATION

HAZARD

EXPOSURE

ASSESSMENTS

SHOW DESCRIPTIONS



Data Sources/(Chemical Identified From)







Functions





Antimicrobial



Reinforcer





Stabilizer /

UV absorber







Additives









Processing

Aid

Uses



Automotive &

Transportation



Construction

(B&C)



Electrical &

Electronic

(E&E)



Textiles &

Apparels









Products



Food







Pipes, Hoses

Polymers



Butadiene

Styrene (ABS)







Polyethylene (HDPE)



Polyethylene (LDPE)











Nylon (PA)







(PET)











(PVC)





Polyvinyl Chloride -Polyvinyl Chloride -Flexible (PVC- Rigid (PVC-U)



UNEP Identified only

Polysytrene (EPS)



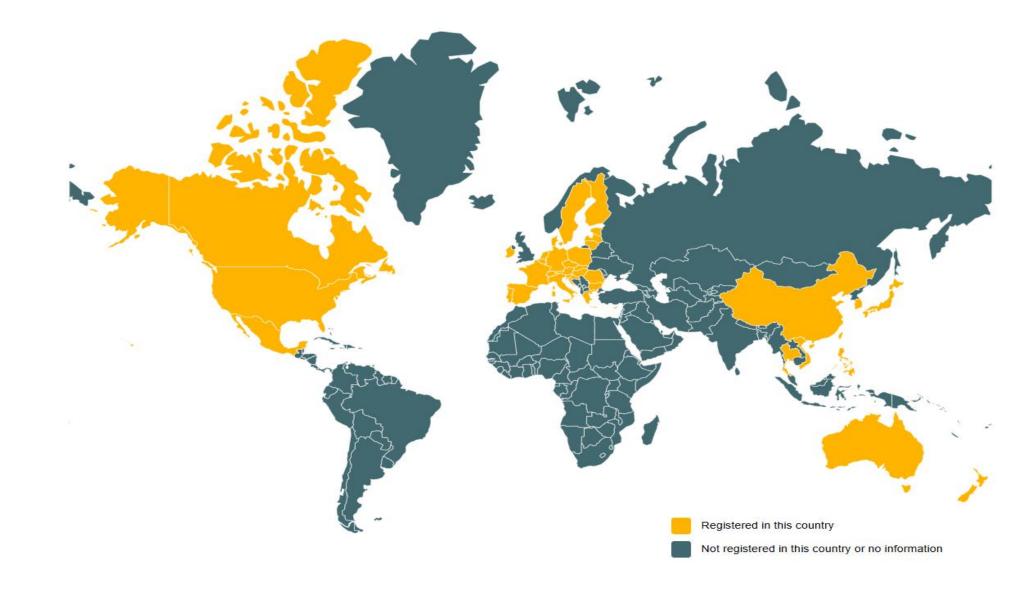
Industry Identified Only

Rubbers



Thermoplastics Thermosets

UNEP and Industry Identified





Chemical Details

Search → Search & List View → Chemical Details

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PHYSICAL CHEMICAL PROPERTIES

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CLASSIFICATION & LABELLING

REGULATION

HAZARD

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SHOW DESCRIPTIONS

Chemical Details: 2-(2-Hydroxy-3,5-di-tert-pentylphenyl)benzotriazole

Globally Harmonized System of Classification & Labelling of Chemicals (GHS)

GHS Summary 1

Reliability: High 1

Reliability.	nigii •
Note	Pictograms displayed are for 95.5% (1573 of 1647) of reports that indicate hazard statements. This chemical does not meet GHS hazard criteria for 4.5% (74 of 1647) of reports.
Signal	Warning
GHS Hazard Statements	H373 (85.7%): May causes damage to organs through prolonged or repeated exposure [Warning Specific target organ toxicity, repeated exposure]
	H413 (88.3%): May cause long lasting harmful effects to aquatic life [Hazardous to the aquatic environment, long-term hazard]
	H373: May causes damage to organs through prolonged or repeated exposure [Warning Specific target organ toxicity, repeated exposure]
	H410: Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]



Chemical Details

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Chemical Details: 2-(2-Hydroxy-3,5-di-tert-pentylphenyl)benzotriazole

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Regulation Details

Australia

- Australian Inventory of Industrial Chemicals
- https://industrialchemicals.gov.au

Canada

- Canada Gazette, Part I, 148 #4:93 (25 Jan 2014)
- Publication after the screening assessment of this substance. A Notice has been published that the Ministers of the Environment and of Health propose to recommend that this substance be added to Schedule I of CEPA since it meets one or more of the criteria set out in section 64 of the Act.

Canada

- Canada Gazette, Part I, 150 #21:1533 (21 May 2016)
- Publication of final decision after the screening assessment of this substance. A notice has been published that the Ministers of the Environment and of Health propose that this substance does not meet any of the criteria set out in section 64 of the Canadian Environmental Protection Act, 1999 (CEPA 1999). In addition, the Ministers propose to take no further action on this substance under section 77 of the Act.

Canada

Canada Domestic Substances List (DSL)

China

Inventory of Existing Chemical Substances in China

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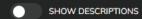
CLASSIFICATION & LABELLING

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Chemical Details: 2-(2-Hydroxy-3,5-di-tert-pentylphenyl)benzotriazole

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CASRN #: 25973-55-1

Risk Assessments

Source Entity Program	Source	Source URL
Australian Industrial Chemicals Introduction Scheme (AICIS)	AICIS Assessments	Link to chemical
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U.S. Environmental Protection Agency (EPA) High Production Volume Information System	EPA ChemView - HPVIS	Link to chemical
U.S. Environmental Protection Agency (EPA) Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) Inert Food/Nonfood Use Ingredients	EPA FIFRA Inert Food/Nonfood Use	Link to chemical
U.S. Food and Drug Administration Database of Indirect Additives used in Food Contact Substances	FDA Indirect Food Additives	Link to chemical
U.S. Food and Drug Administration Database of Indirect Additives used in Food Contact Substances	FDA Indirect Food Additives	Link to chemical
Stockholm Convention	Risk Management Evaluation (RME)	Risk Management Evaluation URL
Stockholm Convention	Risk Profile	Risk Profile URL

Hazard Assessments

Source Entity Program	Source	Source URL
Canadian Environmental Protection Act (CEPA) categorization of existing substances on the domestic substances list (DSL)	Canada CEPA-Categorization of DSL	Link to chemical
U.S. Environmental Protection Agency (EPA) High Production Volume Information System	EPA HPVIS	Link to chemical



Questions?

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https://iccadatabase.com/

