

# SAFETY DATA SHEET

Revision Date 31-Mar-2024

**Revision Number** 3

## 1. Identification

**Product Name** 

# 1-Chloro-4-(4-methylphenyl)phthalazine

## Cat No. : H33979

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals.

76972-35-5

Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

## <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

## Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



# Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

## Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

## Storage

Store in a well-ventilated place. Keep container tightly closed

## Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component		CAS No	Weight %				
1-Chloro-4-(4-methylphenyl)ph	nthalazine	76972-35-5	<=100				
	4.	First-aid measures					
General Advice	If symptoms p	persist, call a physician.					
Eye Contact	Expe Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reasona	ably foreseeable.					

## Notes to Physician

Treat symptomatically

## 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Hydrogen chloride.

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> I	<b>Health</b> 2	Flammability 1	Instability 0	Physical hazards					
		6. Accidental rel	ease measures						
Personal Pre	ecautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.							
Environment	tal Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.							
Methods for Up	Containment and Clea	In Sweep up and shovel into s containers for disposal.	uitable containers for disposa	al. Keep in suitable, closed					
	7. Handling and storage								
Handling		Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.							
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place.							
	8. E	xposure controls /	personal protecti	on					
Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.									
Engineering	Measures	Ensure that eyewash statior	ns and safety showers are clo	ose to the workstation location.					
Personal Pro	otective Equipment								
Eye/face	Protection		eyeglasses or chemical safe ction regulations in 29 CFR 1	ty goggles as described by 910.133 or European Standard					

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State	Solid Crystalline
Appearance	Light yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	159 - 164 °C / 318.2 - 327.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C15 H11 CI N2
Molecular Weight	254.72

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	roid Incompatible products.					
Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NOx), Hydrogen chloride					
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

# 11. Toxicological information

## Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products

No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
1-Chloro-4-(4-methylp henyl)phthalazine	76972-35-5	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effect	S	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		Respiratory system None known	n						
Aspiration hazard		No information available							
Symptoms / effects delayed	,both acute and	d No information available							
Endocrine Disruptor	Endocrine Disruptor Information No information available								
Other Adverse Effect	Other Adverse Effects The toxicological properties have not been fully investigated.								
	12. Ecological information								
Ecotoxicity Do not empty into dra	iins.								
Persistence and Deg	ce and Degradability No information available								
Bioaccumulation/ A	ccumulation	No information ava	ailable.						
Mobility		No information ava	ailable.						
		13. Dispo	sal conside	erations					

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a<br/>hazardous waste. Chemical waste generators must also consult local, regional, and<br/>national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information					
DOT	Not regulated				
DOT TDG	Not regulated				
ΙΑΤΑ	Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-Chloro-4-(4-methylphenyl)phthal	76972-35-5	-	-	-

azine		

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

## TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1-Chloro-4-(4-methylphenyl)phthal	76972-35-5	-	-	-	-	-		-	-	-
azine										

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade

No information available

## Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1-Chloro-4-(4-methylphenyl)phthala zine	76972-35-5	-	-	-

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1-Chloro-4-(4-methylphenyl)p hthalazine	76972-35-5	Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	<b>Convention (PIC)</b>	Basel Convention (Hazardous Waste)
1-Chloro-4-(4-methylphenyl)p hthalazine	76972-35-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	31-Mar-2024 31-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS