

SAFETY DATA SHEET

Creation Date 10-Feb-2011

Revision Date 09-Feb-2024

Revision Number 6

1. Identification

Product Name

Triphenylene

Cat No. :	AC140360000; AC140360010; AC140360050						
CAS No	217-59-4						
Synonyms	Isochrysene.; 1,2,3,4-Dibenznaphthalene; 9,10-Benzophenanthrene						
Recommended Use	Laboratory chemicals.						
Uses advised against	Food, drug, pesticide or biocidal product use.						

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

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)

Serious Eye Damage/Eye Irritation

Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



Precautionary Statements

Prevention

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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Triphenylene		217-59-4	> 95			
	4					
	4.	First-aid measures				
General Advice If symptoms persist, call a physician.						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge 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	Causes seve	ere eye damage.				
Notes to Physician	Treat sympto	omatically				

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Alcohol resistant foam.
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 Impac	t No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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>	Health 3	Flammability	Instability 0	Physical hazards N/A				
		I	0	IN/A				
		6. Accidental rel	ease measures					
Personal	Precautions	Ensure adequate ventilatior formation.	n. Use personal protective equi	pment as required. Avoid dust				
Environm	ental Precautions	Do not flush into surface wa contaminate ground water s	tter or sanitary sewer system. I system. Prevent product from e ant spillages cannot be contair	ntering drains. Local authorities				
Methods f Up	for Containment and Clea	an Sweep up and shovel into s containers for disposal.	uitable containers for disposal.	Keep in suitable, closed				
		7. Handling a	and storage					
Handling		Wear personal protective ed get in eyes, on skin, or on c	quipment/face protection. Ensu lothing. Avoid ingestion and inl	re adequate ventilation. Do not nalation. Avoid dust formation.				
Storage.		Keep container tightly close Oxidizing agent.	d in a dry and well-ventilated p	lace. Incompatible Materials.				
8. Exposure controls / personal protection								
Exposure	Guidelines		in any hazardous materials wi ion specific regulatory bodies.	th occupational exposure				
-	ng Measures	None under normal use cor close to the workstation loca		stations and safety showers are				
Personal	Protective Equipment							
Eye/fa	ce Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 19					
Skin a	nd body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.				
Respi	ratory Protection	No protective equipment is	needed under normal use cond	ditions.				
Recon	nmended Filter type:	Particle filter.						
Hygie	ne Measures	Handle in accordance with	good industrial hygiene and sa	fety practice.				
		9. Physical and che						
Physical S	State	S	olid					

Beige No information available No information available No information available 196 - 200 °C / 384.8 - 392 °F 438 °C / 820.4 °F @ 760 mmHg No information available Not applicable No information available No data available No data available No information available Not applicable No information available No information available No data available No information available No information available

10. Stability and reactivity

Not applicable C18 H12 228.29

Reactive Hazard	None known, based on information available
Stability	No information available.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization No information available.	
Hazardous Reactions	None under normal processing.
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11. Toxicological information

Acute Toxicity

Product Information	lan	No acute toxicity information is available for this product									
Component Information Toxicologically Synergistic No information available Products											
	ate effects as	well as chronic effe	II as chronic effects from short and long-term exposure_								
Irritation		CAUSES (SEVER	CAUSES (SEVERE) EYE BURNS								
Sensitization		No information available									
Carcinogenicity		The table below ir	The table below indicates whether each agency has listed any ingredient as a carcinogen								
Component	CAS No	IARC	IARC NTP ACGIH OSHA Mexico								
Triphenylene	217-59-4	Not listed Not listed Not listed Not listed Not listed									

Reproductive Effects

No information available.

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

13. Disposal considerations

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

	14. Transport information
DOT	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Technical Name	Triphenylene
Hazard Class	9
Packing Group	
TDG	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IATA	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Triphenylene	217-59-4	-	-	-

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 ChemicalNot applicableSubstances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

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
Triphenylene	217-59-4	-	-	205-922-9	-	-		-	-	-

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.

> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Triphenylene	217-59-4	> 95	> 0 %	-

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)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Triphenylene	-	-	Х	-

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
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

REACH (1907/2006) -Component CAS No REACH (1907/2006) -**REACH Regulation (EC** Annex XIV - Substances Annex XVII - Restrictions 1907/2006) article 59 -Subject to Authorization Candidate List of on Certain Dangerous Substances Substances of Very High Concern (SVHC) Triphenylene 217-59-4

Not applicable

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)
Triphenylene	217-59-4	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	(2012/18/EC) -	Convention (PIC)	Basel Convention (Hazardous Waste)
Γ	Triphenylene	217-59-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	10-Feb-2011 09-Feb-2024 09-Feb-2024 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

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