

SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 10-Feb-2015

Revision Number 1

1. Identification

Product Name

AC418770000; AC418770250; AC418771000; AC418775000

Synonyms

Cat No. :

p-Benzoquinhydrone.

Quinhydrone

Recommended Use Laboratory chemicals.

Uses advised against No Information available Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410 Emergency Telephone Number For information US call: 001-800-ACROS-01 / 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)

Acute oral toxicity Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation Category 3 Category 2 Category 2 Category 3



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
2,5-Cyclohexadiene-1,4-dione, compound with	106-34-3	>95
1,4-benzenediol (1:1)		

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.	
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically	

	5. Fire-fightir	ng measures	
Suitable Extinguishing Media	Use water spray, alcohol-re	esistant foam, dry chemical or c	arbon dioxide.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available		
Specific Hazards Arising from the C Thermal decomposition can lead to re sources of ignition.		vapors. Keep product and emp	ty container away from heat and
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained bre protective gear.	ons for Firefighters	emand, MSHA/NIOSH (approv	ed or equivalent) and full
<u>NFPA</u> Health 3	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions Environmental Precautions	Avoid contact with skin, eye	uipment. Ensure adequate ven es and clothing. o the environment. See Section	
Methods for Containment and Clear Up	n Sweep up or vacuum up sp formation.	pillage and collect in suitable co	ntainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling		quipment. Ensure adequate ve o not get in eyes, on skin, or or	ntilation. Avoid dust formation. D
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Keep under nitrogen.		
8. Ex		/ personal protection	
Exposure Guidelines	This product does not contact established by the region s		th occupational exposure limits
Engineering Measures		n, especially in confined areas.	Ensure that eyewash stations
	and salety showers are clo	se to the workstation location.	

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

	EN166.
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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Dark green
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	168 - 172 °C / 334.4 - 341.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
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	No information available
Relative Density	1.400
g/cm3	
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C12 H10 O4
Molecular Weight	218.21

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	May form explosive peroxides. Air sensitive. Light sensitive.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to light.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

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Component Information	
Product Information	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation

2,5-Cyclohexadiene-1,4-dione, compound with 1,4-benzenediol (1:1)	225 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products Delayed and immediate effects	No information available as well as chronic effects from	n short and long-term exposure	9
Irritation	Irritating to eyes, respiratory system and skin		

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
2,5-Cyclohexadiene-1, 4-dione, compound with 1,4-benzenediol (1:1)	106-34-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	d No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.			ntry in RTECS for	

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms. Do not empty into drains.

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

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Mobility

Component	log Pow
2,5-Cyclohexadiene-1,4-dione, compound with 1,4-benzenediol (1:1)	0.16

13. Disposal considerations

14. Transport information

Waste Disposal Methods

Chemical waste g	enerators must determine whether a discarded chemical is classified as a
hazardous waste.	Chemical waste generators must also consult local, regional, and
national hazardou	s waste regulations to ensure complete and accurate classification.

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UN-No Proper Shipping Name UN2811

TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class Packing Group TDG	6.1 III
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
<u>IATA</u>	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2,5-Cyclohexadiene-1,4-dion	Х	Х	-	203-387-6	-		Х	-	Х	Х	-
e, compound with											
1,4-benzenediol (1:1)											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable		
SARA 313	Not applicable		

SARA 311/312 Hazardous Categoriz Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard		Yes No No No No
Clean Water Act	Not applicable	

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1B Toxic materials D2B Toxic materials



16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date Revision Summary 24-Nov-2010 10-Feb-2015 10-Feb-2015

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

Prepared By

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS