

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision Number 3

		1. Identification	
Product Name	4-Chroma		
			500
Cat No. :	AC153460	0000; AC153460100; AC153460	500
CAS-No Synonyms	491-37-2 No informatio	on available	
Recommended Use Uses advised against Details of the supplier of the		hemicals. besticide or biocidal product use.	
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	One R	Organics Reagent Lane awn, NJ 07410	
Emergency Telephone Numb For information US call: 001-80 Emergency Number US:001-20 CHEMTREC Tel. No.US:001-8	0-ACROS-01 / Euroj 01-796-7100 / Europe	e: +32 14 57 52 99	
	2. Ha	azard(s) identification	
Classification Classification under 2012 OSH	A Hazard Communic	ation Standard (29 CFR 1910.1200)	
This chemical is not considered	I hazardous by the 20	012 OSHA Hazard Communication Star	ndard (29 CFR 1910.1200)
Label Elements None required			
<u>Hazards not otherwise classi</u> None identified	fied (HNOC)		
	3. Compositio	on/Information on Ingred	lients
Componer	ht	CAS-No	Weight %
perior	-		

4H-1-Benzopyran-4-one, 2,3-dihydro-		491-37-2	96	
4. First-aid measures				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.			
Inhalation	Remove from exposure, lie down. Remove to fresh air.			
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat sympto	matically		
5. Fire-fighting measures				

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam. **Unsuitable Extinguishing Media** No information available **Flash Point** 110 °C / 230 °F Method -No information available No information available **Autoignition Temperature Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available 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 (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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 0	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilatio See Section 12 for addition	n. Use personal protective equ nal Ecological Information.	ipment as required.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe dust.

Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
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	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State	Solid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	34 - 40 °C / 93.2 - 104 °F
Boiling Point/Range	127 - 128 °C / 260.6 - 262.4 °F @ 13 mmHg
Flash Point	110 °C / 230 °F
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	C9 H8 O2
Molecular Weight	148.16

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

No acute toxici	ty information is available for this product

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
4H-1-Benzopyran-4-one, 2,3-dihydro-	LD50 = 2647 mg/kg(Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		

Products

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	
4H-1-Benzopyran-4-on e, 2,3-dihydro-	491-37-2	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	ts	No information available.					
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expo STOT - repeated ex							
Aspiration hazard	Aspiration hazard No information available						
Symptoms / effects delayed	ymptoms / effects,both acute and No information available elayed						
Endocrine Disruptor Information No information available							
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.					
		12. Ecolo	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into dra	ains.						
Persistence and De	gradability	No information ava	ailable				

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	Not regulated		
TDG IATA	Not regulated		
IATA	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
4H-1-Benzopyran-4-one, 2,3-dihydro-	491-37-2	Х	ACTIVE	PMN

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed PMN - Indicates a commenced PMN substance

TSCA 12(b) - Notices of Export Not applicable

International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
4H-1-Benzopyran-4-one,	491-37-2	-	X	207-736-3	-	-	-	-	-
2,3-dihydro-									

U.S. Federal Regulations

SARA 313	Not applicable				
SARA 311/312 Hazard Categories	See section 2 for more information				
CWA (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.				
U.S. State Right-to-Know Regulations	Not applicable				
U.S. Department of Transportation					
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland	N N N This product does not contain any DHS chemicals.				

Security

Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	18-Jan-2018 18-Jan-2018 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