



Material Safety Data Sheet

Section 1: Product and Company Identification					
Product Name	Esculin Anhydrous				
Catalogue Number:	ASC-1001	CAS Number:	531-75-9		
E-mail:	Sales@ausamics.com	Website:	Ausamics.com		
Section 2: Hazards Identification					
Classification: Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)					
Label Elements					
Label Elements	None required				
Hazards not otherwise classified (HNOC)	None identified				
Section 3: Composition / Information on Ingredients					
Component	CAS No	Weight %			
Esculin hydrate	NA	>95			
2H-1-Benzopyran-2-one, 6- (.beta.-D-glucopyranosyloxy)-7 hydroxy-	531-75-9	-			
Section 4: First Aid Measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.				
Inhalation	Remove to fresh air. Get medical attention immediately 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 reasonably foreseeable.				
Notes to Physician	Treat symptomatically				

**Section 5: Firefighting Measures**

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.		
Unsuitable Extinguishing Media	No information available		
Flash Point	No information available		
Autoignition Temperature	Not applicable		
Explosion Limits Upper Lower	No data available No data available		
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available 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.		
NFPA			
Health	Flammability	Instability	Physical hazards
0	1	0	N/A

Section 6: Accidental Release Measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Section 7: Handling and storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep in a dry, cool, and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established 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.

Section 9: Physical and Chemical Properties

Physical State	Powder Solid
Appearance	Light cream
Odor	Strong
Odor Threshold	No information available
pH	No information available
Melting Point/Range	203 - 205 °C / 397.4 - 401 °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	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable



Molecular Formula	C ₁₅ H ₁₆ O ₉ .xH ₂ O
Molecular Weight	340.29

Section 10: stability and Reactivity	
Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11: Toxicological Information						
Acute Toxicity Product Information Component Information	No acute toxicity information is available for this product					
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
Esculin hydrate	NA	Not listed				
2H-1-Benzopyran-2-one,6- .(.beta.-D-glucopyran osyloxy)- 7-hydroxy-	531-75-9	Not listed				
Mutagenic Effects	No information available					
Reproductive Effects	No information available					
Developmental Effects	No information available					
Teratogenicity	No information available					



STOT - single exposure	None known
STOT - repeated exposure	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.

Section 12: Ecological Information

Ecotoxicity	Do not empty into drains.
Persistence and Degradability	based on information available. May persist
Bioaccumulation/Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

Section 13: Disposal Consideration

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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Section 14: Transport Information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

Section 15: Regulatory Information**United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Esculin hydrate	NA	-	-	-



2H-1-Benzopyran-2-one,6- .beta.-D-glucopyran oxyloxy)-7-hydroxy-	531-75-9	X	ACTIVE	-
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Legend:

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

X - Listed

- - Not Listed

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
Esculin hydrate	NA	-	-	-	-	-	-	-	-	-
2H-1-Benzopyran-2-one,6- .beta.-D-glucopyran oxyloxy)-7-hydroxy-	531-75-9	X	-	208-517-5	-	-	-	X	X	-

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)	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
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Authorization /Restrictions according to EU REACH

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)
Esculin hydrate	NA	Not applicable	Not applicable	Not applicable	Not applicable
2H-1-Benzopyran-2-one,6-(.beta.-D-glucopyranosyloxy)-7-hydroxy-	531-75-9	Not applicable	Not applicable	Not applicable	Not applicable

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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Esculin hydrate	NA	Not applicable	Not applicable	Not applicable	Not applicable
2H-1-Benzopyran-2-one,6-(.beta.-D-glucopyranosyloxy)-7-hydroxy-	531-75-9	Not applicable	Not applicable	Not applicable	Not applicable

Section 16: Additional Notes

Documented By	Ausamics Life Science Sales@Ausamics.com
Revision date	June 03, 2023
Summary of Revisions	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).



Disclaimer

The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.