



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. TT 10
Effective Date MaY 20, 1999

SECTION V HEALTH HAZARD DATA

TT 10

Threshold Limited Value Nuisance particulates 10 mg/m³ dust. (ACGIH 1992-93). RTECS No. WW5075000
Toxicity data: orl-rat LDLo: 200 mg/kg; orl-rabbit LD50: 5000 mg/kg.

Effects of Overexposure Target organs affected: Liver, kidneys. Locally causes drying and discoloration of skin. Large doses may produce gastritis (especially if stomach is empty), vomiting, pain, diarrhea, or constipation. In view that Tannic acid has proven to be carcinogenic in animal studies only, exercise appropriate procedures to minimize potential hazards. Contact with open sores may result in liver damage.

Emergency and First Aid Procedures
SKIN: Flush with water. Follow by washing with mild soap and water.
EYES: Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Keep from exposure to air and light; excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Salts of heavy metals, alkaloids, gelatin, albumin, starch, oxidizing substances - e.g. , permanganates, chlorates; spirit nitrous ether, limewater.

Hazardous Decomposition Products Thermal decomposition or heating may produce carbon dioxide and/or carbon monoxide.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use. Small spills may be dissolved in water. Neutralize with sodium bicarbonate and flush to sewer with copious amounts of water. Spills may also be swept up and placed in a suitable container for disposal by incineration. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Recommend gloves for repeated exposure. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, apron, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place and protect from light and oxidizing materials. Store below 210°C (410°F).
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.
Gradually darkens on exposure to air and light. Avoid contact with skin and eyes. Wash thoroughly after handling. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 5/20/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	TANNIC ACID	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS * Health 1 Fire 1 Reactivity 1</p>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
Chemical Synonyms	Tannin, Gallotannic Acid											
Formula	C ₇₆ H ₅₂ O ₄₆											
Unit Size	up to 2.5 Kg.											
C.A.S. No.	1401-55-4											

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Tannic Acid	100%	None established.
WARNING! IRRITANT TO SKIN AND EYES.		
SUSPECTED CARCINOGEN *.		

SECTION III PHYSICAL DATA

Melting Point (°F)	210°-215°C (410°-419°F) dec.	Specific Gravity (H ₂ O = 1)	Greater than 1.0
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Complete.		
Appearance & Odor	Yellowish-light tan powder; faint characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	390°F (199°C) (OC)	Flammable Limits in Air % by Volume	Lower	Upper
		Unknown	-----	-----
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical (ABC).			

SPECIAL FIREFIGHTING PROCEDURES In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

* CARCINOGENIC REVIEW: ANIMAL POSITIVE.
Cancer hazard based on tests with laboratory animals.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react with oxidizing materials.

Autoignition Temperature: 980°F (527°C).

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20