



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 25
Effective Date October 8, 1998

SECTION V HEALTH HAZARD DATA

CC 25

Threshold Limited Value

RTECS No. EV6475000 Toxicity data: oral-child LDLO: 320mg/kg, oral-woman LDLO: 1000mg/kg, oral-infant TDLO: 14,700ug/kg, oral-mouse LD50: 127mg/kg, Oral-rat LD50: 192 mg/kg.

Effects of Overexposure

INGESTION AND INHALATION: No TLV established. May act as stimulant if excessive ingestion. Large doses (above 1 g) may cause palpitation, excitement, insomnia, dizziness, headache and vomiting.
SKIN AND EYES: As dust or vapor may be an irritant. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Excessive temperatures and heat.

Incompatibility (Materials to Avoid)	Strong oxidizers, hot alkalies, chlorine water.
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Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of nitrous oxides, carbon monoxide, carbon dioxide.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams. Recover for use if not contaminated.
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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.
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Dispose of in an approved incinerator.

SECTION VIII SPECIAL PROTECTION INFORMATION

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

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, ventilation hood, proper gloves and eye wash station.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling. Avoid breathing dust or vapor. Do not ingest. Remove and wash contaminated clothing.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. The FDA has recently proposed removal of caffeine from its "generally recognized as safe" list and is gathering additional information. Concerns with excessive use include possible reproductive effects to fetal craniofacial area, musculoskeletal system, possible bladder cancer (2 separate epidemiological studies), myocardial infarction and, to lesser degree, constipation, palpitations, shortness of breath and depressed mental state.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	10/8/98	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	CAFFEINE
Chemical Synonyms	1,3,7, - Trimethylxanthine
Formula	C ₈ H ₁₀ N ₄ O ₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	58-08-2

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health	2
Fire	1
Reactivity	0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Caffeine, anhydrous	100%	Not established.
		(ACGIH-1983-84)

DANGER! POISON MAY BE HARMFUL IF INHALED OR SWALLOWED

SECTION III PHYSICAL DATA

Melting Point (°F)	Sublimes at 238°C (460°F)	Specific Gravity (H ₂ O = 1)	1.23
Boiling Point (°F)	178°C (352°F)	Percent Volatile by Volume (%)	0.5%
Vapor Pressure (mm Hg)	760 @ 178°C	Evaporation Rate (=1)	Not applicable
Vapor Density (Air=1)	Not applicable		
Solubility in Water	One gram dissolves in 46 mL of water at 20°C		
Appearance & Odor	White needles or white powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Ignition temp. 925°C (1696°F)	Flammable Limits in Air % by Volume	g/cu.ft.	Lower	2	Upper	16
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of Nitrous oxides and other hazardous materials; can react vigorously with oxidizing materials. Severe (Bureau of Mines Explosion Hazard Ratings) as dust.

D.O.T. **Poisonous solids, n.o.s., (Caffeine), 6.1, UN 2811, PG III**

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