# **ALDON CORPORATION**

10102-17-7

C.A.S. No.

# MATERIAL SAFETY DATA SHEET

221 Rochester Street Avon, New York 14414-9409 (585) 226-6177

MSDS No.: Effective Date:

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January 1, 2007

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#### **SECTION I NAME** 24 HOUR EMERGENCY ASSISTANCE **Product** Sodium Thiosulfate, Pentahydrate CHEMTREC Health 0 Chemical 800-424-9300 Sodium Thiosulfate, 5-Hydrate Synonyms Day 585-226-6177 Fire 0 Formula Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>•5H<sub>2</sub>O Reactivity **NFPA** HMIS **Unit Size** up to 12 Kg. HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE

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SECTION II	INGREDIENTS OF MIXTUR	ES	
Principal Component(	s)	%	TLV Units
Sodium Thiosulfate	, Pentahydrate	100%	None established.
CAUTION!			
MAY BE HARMFU	L IF SWALLOWED.		
MAY CAUSE IRRIT	TATION TO SKIN, EYES AND MUCOUS MEMBI	RANES.	

SECTION III	PHYSICAL DATA						
Melting Point (°F)	Rapidly heated at 48°C (118°F) Specific Gravity (H <sub>2</sub> O = 1)		1.685 at 20°C				
Boiling Point (°F)	Loses water @ 100°C (212°F)	Percent Volatile by Volume (%)	Non-volatile.				
Vapor Pressure (mm Hg)	Negligible as solid.		Non-volatile.				
Vapor Density (Air=1)	Not applicable.						
Solubility in Water	42 grams per 100 mL. water at 0°C.						
Appearance & Odor	Clear to white crystals; no odor.						

SECTIO	N IV FIRE AND	<b>EXPLOSION HAZAR</b>	D DATA	
Flash Point		Flammable Limits in Air	Lower	Upper
(Method Used)	Non-flammable.	% by Volume N/A		
Extinguisher Media	Use any media suitable for extin	guishing supporting fire.		

### **SPECIAL FIREFIGHTING PROCEDURES**

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use water spray to keep containers cool, and to knock down fumes.

## **UNUSUAL FIRE AND EXPLOSION HAZARDS**

High temperatures may cause evolution of toxic Sulfur Dioxide (SO<sub>2</sub>) or Hydrogen Sulfide gas (H<sub>2</sub>S).

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				arget organs. None	KHOWH.			
Emergence First Aid F				NGESTION: Call phy omiting only if advise				
with water fo	or at le	east 15 r	unconscious minutes, lift	s person. <b>EYES:</b> Charing upper and lower	heck for and eyelids occ	I remove cont asionally. Ge	act lenses. Flush timmediate medic	thoroughly al attention.
	ention.	. <u>INHAL</u>	ATION: R	ng. Flush thoroughly temove to fresh air. I ttention.				
SECTIO	N VI		R	EACTIVITY D	ATA			
Stability	Uns	table able	X	Conditions to			ratures (above 100 de gas and hazardo	
Incompati (Materials			Acids	ng oxidizers: Causes s: Release sulfur dio e strong exothermic	xide gas. V	Vater-reactive	materials such as	sodium:
Hazardous Decompos		n Proc	lucts	Sulfur dioxide g Sodium sulfide to skin and tissu	residue: Fla	ammable, dar	gerous, fire risk, st	trong irritant
Hazardous	Poly	meriza	tion	Conditions to	Avoid			
May Occur	·Í	Will No	ot Occur		-	Not applic	able.	
			Χ	<u> </u>				
SECTIO	N VI	1	S	PILL OR LEA	K PROC	EDURES		
Steps to b	e tal	ken in	case					
material is	rele	ased	or spille	d Avoid crea	iting dust. S	Sweep up and	place in a suitable	
		<del>Juocu</del>	<u> </u>					
		Juocu	<u> </u>		disposal. W	/ash spill area	a with soap and wa	iter.
				for proper		· 	with soap and wa	
	posa		hod Dis	for proper	sposal may be	e subject to Fed	with soap and wa	ws.
	posa		hod Dis	for proper scharge, treatment, or di ese disposal guidelines	sposal may be are intended f	e subject to Fed for the disposal	with soap and wa	ws. ties only.
	posa		hod Dis	for proper	sposal may be are intended f	e subject to Fed for the disposal tor equipped	a with soap and wa leral, State or Local la of catalog-size quanti with an afterburner	ws. ties only.
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**SECTION V HEALTH HAZARD DATA** SS0880 **Threshold Limited Value** No OSHA/TWA or ACGIH/TLV established for sodium thiosulfate. ACGIH/TLV for SO<sub>2</sub> is 5 mg/cu. m., with STEL 10 mg/cu. m. INHALATION: Of product dust or mist, may irritate respiratory tract.
INGESTION: May cause irritation of the gastrointestinal tract and purging.
SKIN: Dust or mist may cause irritation from prolonged contact. Aqueous **Effects of Overexposure** 

solutions may cause irritation from repeated or prolonged contact. **EYES:** Dust or mist may irritate or burn eyes. Solutions may irritate or burn eyes. Target organs: None known.

SECTIO	N VI	R	EACTIVITY DATA	
Stability	Stability Unstable		Conditions to Avoid	High temperatures (above 100°C): Yields
	Stable	Х		sulfur dioxide gas and hazardous residue.
(Metarials to Avaid)			g oxidizers: Causes vigorous E: Release sulfur dioxide gas. E strong exothermic reaction v	Water-reactive materials such as sodium:
Hazardous Decomposition Products				c, corrosive and an oxidizer. Flammable, dangerous, fire risk, strong irritant patible with acids.
Hazardous Polymerization			<b>Conditions to Avoid</b>	
May Occur Will Not Occur			Not applicable.	
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SECTION \	/III	SP	<b>ECIAL PROT</b>	EC	TION I	NFOR	MATION	
Respiration Protec (Specify Type)							y conditions prevail, work in rator for dust.	
Ventilation	Local Ex	chaust	Recommended	nmended. Spe			No.	
Ventuation	Mechan	ical (General)	Recommended.		Other		No.	
Protective GI	oves		Rubber.	Ey	e Prote	tection Chemical safety glasses.		
Other Protective Equipment Goggles, smock, apron, proper gloves, eye wash station, ventilation hood.								
SECTION I	SECTION IX SPECIAL PRECAUTIONS							