Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.



IDENTITY OF SUBSTANCE (As Used on Label and List) Manpro Manganese Methionine			Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate that.				
CHEMICAL NAME Manganese Methionine							
Section I							
Manufacturer's Name Zinpro Corporation	Emergency Telephone Number Chemtrec 800 424-9300						
Address (Number, Street, City, State, and ZIP Co 6500 City West Parkway, Suit	Telephone Number for Information 612 944-2736						
Eden Prairie, MN 55344			Date Prepared November 1995				
	Signature of Preparer (optional)						
Section II — Hazardous Ingredients/Id	dentity I	nformation					
IS THIS PRODUCT HAZARDOUS IN THIS CONCI	ENTRATIO	N UNDER 29 C	FR PART 1910.120	00?	YES NO	Х	
IF YES, CHECK HEALTH HAZARD —	CARCIN		HIGHLY TOXI	С	SENSITIZE	_	TARGET ORGAN
OR, CHECK PHYSICAL HAZARD —	FL	OMBUSTIBLE _AMMABLE YROPHORIC	LIQUID		OMPRESSED GA PRGANIC PEROX	IDE	EXPLOSIVE OXIDIZER TER-REACTIVE
Hazardous Components (Specific Chemical Identity: Common Name(s))	OSH	A PEL	ACGIH TL	V	Other L Recomm		% (optional)
	5 m g	g/m ³	5mg/m ³				
This product contains the follow	ing che	mical which	ch may be su	bjec	t to the re	porting re	quirements
of Section 313 of the Emergency	Plannin	g and Com	munity Right	-to-	Know Act of	1986 and	of 40 CFR 372
Components CAS			# Percent				
Manganese Sulfate 7785-8			8-16% Mn				
Section III — Physical/Chemical Char	acteristi	cs					
Boiling Point Not Applicable			Specific Gravity 0.75	(H ₂ O =	: 1)		
Vapor Pressure (mm Hg) Not Applicable			l -		ove 500° F		
Vapor Density (Air = 1) Not Applicable			Evaporation Rate (Butyl Acetate =	e 1) No	t Applicabl	Le	
Solubility in Water Manpro 80: Not Soluble; Manp	oro 160	: Soluble					
Appearance and Odor Manpro 80: Brow Both: Slight methionine-like	_	ular; Man	pro 160: Of	f-wh	ite fine pow	der.	
Section IV — Fire and Explosion Haza	ard Data						
Flash Point (Method Used) Nonflammable		Not	Flammable Limit Applicable	S	N.A.	LEL N.A.	UEL
Extinguishing Media Water, foam, ${\rm CO_2}$, or dry che	emical						
Special Fire Fighting Procedures None							
Unusual Fire and Explosion Hazards None							

Section V —	Reactivity Data							
Stability	Unstable		Conditions to Avoid					
	Stable	Х						
Incompatibility (Materials to Avoid)							
Hazardous Deco	mposition or Byprod	lucts						
Hazardous	May Occur		Conditions to Avoid					
Polymerization			Not Applicable					
	Will Not Occur	Х						
Section VI —	· Health Hazard	Data	Based on specific concentra	ation as sold				
Route(s) of Entr			3	Contact May e Irritation	Ingestion? Unlikely			
,	(Acute and Chronic)		Lation Gause	ETITICACION	Ullikely			
None								
C		NTDO	IADO M		OCULA De regleta do			
Carcinogenicity:		NTP? No		onographs? No	OSHA Regulated? No			
	toms of Exposure		og on glein more ogugo in	nitation Deal	onced inheletion more			
	piratory irr		es or skin may cause ir	ritation. Proi	longed inhalation may			
Medical Condition	<u>- </u>	Itati	LOII.					
Generally Aggra	vated by Exposure	Resp	iratory problems.					
	First Aid Procedures		ter. If necessary, seek	medical attent	ion			
wasii cycs	OI BILII WIC	ıı wa	ter. II necessary, seen	medical accent				
Section VII -	– Precautions fo	or Saf	e Handling and Use					
	en in Case Material							
Recover u	ncontaminated			or sweep remai	ning material keeping			
dust to a	minimum.							
Waste Disposal I		ole m	naterial in RCRA approv	ed waste facili	tv.			
	T diff cerarina,	310 1	material in Rolli approve	ed waste laciff	<i>z</i> ;.			
	Be Taken in Handling							
	mask to avoi	d pro	olonged inhalation. Av	oid prolonged s	skin contact. Store in dry			
place.								
Other Precaution	15							
Section VIII -	— Control Meas	ures	Specify whether one or more controls	s are necessary (alone o	r in combinations)			
Respiratory Prot	ection (Specify Type	e)			<u> </u>			
Face Mask								
			Is respiratory protection □ nec Possibly necessary	essary □unnecessary i with prolonged	if ventilation identified below is used?			
Ventilation	Local Exhaust		[Special				
	Mechanical (Gene	ral)		Other				
Protective Gloves	loves \boxtimes Yes (Specify type) For prolonged contact. \square No (rubber gloves)			Eye Protection ☐ Yes (Specify type) For prolonged (goggles) ☐ No contact in dusty conditions				
Other Protective Not Appli	Clothing or Equipm cable	ent			ood personal hygiene reduces f skin irritation.			
		unnece	essary if other control measures are u	<u> </u>				