

## 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.

## U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List) 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. RED-STUFF Section I Manufacturer's Name Emergency Telephone Number ALPINE CHEMICAL PRODUCTS 206-838-4318 Address (Number, Street, City, State, and ZIP Code) Telephone Number for Information 1824 S.W. 352nd. PLACE 206-838-4318 Date Prepared FEDERAL WAY, WA 98023 JANUARY 26, 1989 Signature of Preparer (optional) Section II — Hazardous Ingredients/Identity Information Other Limits Recommended ACGIH TLV Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL % (optional) CAUSTIC SODA AND CAUSTIC POTASH WITH SODIUM METASILICATE IN A SURFACTANT WATER SOLUTION. GLYCOL ETHER DPM 100 100 NONE DIPROPYLENE GLYCOL MONOMETHYL ETHER) LESS THAN 10% Section III — Physical/Chemical Characteristics **Boiling Point** Specific Gravity (H2O = 1) 212° 1.02 Vapor Pressure (mm Hg.) Melting Point N/A N/A Vapor Density (AIR = 1) Evaporation Rate N/A OBORYX ANDRIBUE X XX WATER = 1 Solubility in Water COMPLETE Appearance and Odor RED LIQUID----LOW ODOR Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) Flammable Limits LEL UEL NONE NONE N/A Extinguishing Media NONE, NON-COMBUSTIBLE Special Fire Fighting Procedures NON-FLAMMABLE Unusual Fire and Explosion Hazards NONE

Stability	Unstable	1	Conditions to	Avoid	17.01	-					
	Stable	$\frac{1}{x}$	<del></del>		NON	E					
Incompatibility	(Materials to Avoid				4.01	DIC DDC	DUCTC	<del></del>			<del></del>
Hazardous Decx	omposition or Byproc	lucts	<del></del>		ACI	DIC PRO	000015				<del></del>
Hazardous	May Occur	<del></del>	Conditions to	Avoid	МОИ	IE			•		
Polymerization	Will Not Occur	<del> </del>	3311311313		NON	IE		<del></del>			
		X	<u> </u>					<del></del>			
	- Health Hazard		··			<u> </u>	<u> </u>				
Route(s) of Entr		alation?	X		Skin? 	X		Ingestion?	<u> </u>		
Health Hazards INTERMI	(Acute and Chronic) [TTANT CON'	TACT	WITH CO	NCENTRA	ATE MA	Y CAUSE	INFL	AMATIO	I. DRY	NESS	OF.
	ND POSSIBL										
Carcinogenicity:	NONE	P?	N/A		IARC Mon	ographs?		OSHA Re	gulated?	N/A	
<del></del> -	NONE		N/A			N /	А				<u> </u>
Signs and Symp	ptoms of Exposure										
ROLONGEL	CONTACT VITH EYES	HTIN	CONCENT	RATE CA	AN CAU	SE SKIN					
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Medical Conditi Generally Aggra	ons 100000 11		mbo mi	RASHES	 DERM	ITITIS,	OPEN	SORES	BURN	s, k	ounds,
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Emergency and	First Aid Procedure	s r	74000000	WEG DY							
IN: WASH	H WITH SOA	P & V			JSH WI	TH WATE	ER, IF				
IN: WASH LL PHYSI	CIAN. ING	P & V ESTIC	N: DO N	OT INDU	JSH WI	TH WATE	ER, IF	LARGE	AMOUN	TS_C	F WATE
IN: WASH LL PHYSI Section VII	H WITH SOA CCIAN. ING — Precautions	P & V ESTIC for Sat	N: DO Ne Handling	OT INDU	JSH WI	TH WATE	ER, IF	LARGE		TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai	CIAN. ING	P & V ESTIC for Satus Release	N: DO N e Handling sed or Spilled	OT INDU and Use	JSH WI	TH WATE	ER, IF	LARGE	AMOUN	TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai	H WITH SOA CCIAN. ING — Precautions ken in Case Material	P & V ESTIC for Satus Release	N: DO N e Handling sed or Spilled	OT INDU and Use	JSH WI	TH WATE	ER, IF	LARGE	AMOUN	TS_C	F WATE
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IN: WASH LL PHYSI Section VII Steps to Be Tal CONTAIN Waste Disposal DISPOSE	H WITH SOA  CIAN. ING  — Precautions  ken in Case Matenal  N AND REMOV  Method  E IN ACCOR	P & V ESTIC for Sat Is Relea VE W DANCE	ON: DO N e Handling sed or Spilled TH ABSO	OT INDU and Use	JSH WI JCE VO	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tal  CONTAIN  Waste Disposal  DISPOSE	H WITH SOA CIAN. ING — Precautions ken in Case Material MAND REMOV	P & V ESTIC for Sat Is Releas VE WI DANCE	ON: DO N e Handling sed or Spilled TH ABSO	OT INDU	JSH WI JCE VO MATERI	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tal  CONTAIN  Waste Disposal  DISPOSE	H WITH SOA  CIAN. ING  — Precautions  ken in Case Matenal  N AND REMO  Method  E IN ACCOR	P & V ESTIC for Sat Is Releas VE WI DANCE	ON: DO N e Handling sed or Spilled TH ABSO	OT INDU	JSH WI JCE VO MATERI	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tal  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT	H WITH SOA  CIAN. ING  — Precautions  ken in Case Material  N AND REMOV  Method  E IN ACCOR  Be Taken in Handlin  C FROM FRE	P & V ESTIC for Sat Is Relead VE WI DANCE	ON: DO N THE HANDING THE ABSO THE WITH L THE WITH L THE AND HI	OT INDU	JSH WI JCE VO MATERI	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
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IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT  Other Precautio  USE GOO	H WITH SOA  CIAN. ING  — Precautions  ken in Case Material  AND REMOV  Method  E IN ACCOR  Be Taken in Handlin  C FROM FRE  Ons  OD HOUSEKE	P & V ESTIC for Sat Is Relead VE WI DANCH g and St EZINC	ON: DO N THE HANDING THE ABSO THE WITH L THE WITH L THE AND HI	OT INDU	JSH WI JCE VO MATERI	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
IN: WASH LL PHYSI Section VII Steps to Be Tai CONTAIN Waste Disposal DISPOSE Precautions to I PROTECT Other Precaution USE GOO	H WITH SOA  CIAN. ING  — Precautions  ken in Case Material  N AND REMOV  Method  E IN ACCOR  FROM FRE  Ons  OD HOUSEKE	P & V ESTIC for Sat ts Relea VE W DANCE G and St EZINC	ON: DO N THE HANDING THE ABSO THE WITH L THE WITH L THE AND HI	OT INDU	JSH WI JCE VO MATERI	TH WATE	ER, IF	LARGE CAI	AMOUN	TS_C	F WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT  Other Precautio  USE GOO  Section VIII  Respiratory Pro	H WITH SOA  CIAN. ING  — Precautions  ken in Case Material  N AND REMOV  Method  E IN ACCOR  FROM FRE  Ons  OD HOUSEKE  — Control Mea  Stepted on Incomplete the stepted of	P & V ESTIC for Sat ts Release VE WI DANCH G and St EZING	ON: DO'N  e Handling  sed or Spilled  TH ABSO  E WITH L  pring  AND HI  S PROCED	OT INDU	JSH WIJCE VO	TH WATE	ER, IF GIVE SAND.	LARGE CAI	AMOUN L PHY	TS C	OF WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to BE  PROTECT  Other Precaution  USE GOO  Section VIII  Respiratory Pro	H WITH SOA  CIAN. ING  — Precautions  ken in Case Matenal  N AND REMO  Method  E IN ACCOR  FROM FRE  Ons  D HOUSEKE  — Control Mea  Stepted UNLE  Local Exhaust	P & V ESTIC for Sat Is Releas VE WI DANCH g and St EZINC EPINC Issures	ON: DO'N  THE HANDING  WITH L  OF AND HI  PROCED	OT INDUAND USE  RBANT MOCAL S  GH HEAT  URES	JSH WIJCE VO	TH WATE	ER, IF GIVE SAND DERAL SE NIO	LARGE CAI REGULAD	AMOUN L PHY	TS C	OF WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT  Other Precautio  USE GOO  Section VIII  Respiratory Pro	H WITH SOA  CIAN. ING  — Precautions  ken in Case Material  V AND REMOV  Method  E IN ACCOR  BE Taken in Handlin  C FROM FRE  OD HOUSEKE  — Control Mea  Stection (Specify Types  Local Exhaust  Mechanical (Gene	P & V ESTIC for Sat Is Releas VE W DANCH  G and St EZINC  EPINC  ISSURES ONE F  Trail	ON: DO'N  e Handling  sed or Spilled  TH ABSO  E WITH L  pring  AND HI  S PROCED	OT INDUAND USE  RBANT MOCAL S  GH HEAT  URES	JSH WIJCE VO	TH WATE	ER, IF GIVE SAND DERAL SE NIO	LARGE CAI REGULAT	AMOUN L PHY	TS C	OF WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT  Other Precautio  USE GOO  Section VIII  Respiratory Pro	H WITH SOA  CIAN. ING  — Precautions  ken in Case Matenal  N AND REMO  Method  E IN ACCOR  FROM FRE  OD HOUSEKE  — Control Mea  Stepted in Case  Local Exhaust  N  Mechanical (Gene	P & V ESTIC for Sat ts Release VE WI DANCH g and St EZINC EPINC asures ONE B	ON: DO'N  THE HANDING  WITH L  OF AND HI  PROCED	OT INDUAND USE  RBANT MOCAL S  GH HEAT  URES	JSH WIJCE VO	TH WATE MITING, AL OR S AND FEL THEN US Special	ER, IF GIVE SAND DERAL SE NIO N	LARGE CAI REGULAT SH APPI ONE ONE	AMOUN	TS_C SICI	OF WATE
IN: WASH  LL PHYSI  Section VII  Steps to Be Tai  CONTAIN  Waste Disposal  DISPOSE  Precautions to I  PROTECT  Other Precautio  USE GOO  Section VIII  Respiratory Pro  NONE NE  Ventilation  Protective Glove  NOT REC	H WITH SOA  CIAN. ING  — Precautions  ken in Case Matenal  N AND REMO  Method  E IN ACCOR  FROM FRE  OD HOUSEKE  — Control Mea  Stepted in Case  Local Exhaust  N  Mechanical (Gene	P & V ESTIC for Sat Is Releas VE WI  DANCH GANCH CEPING ISSURES ONE CAN	ON: DO'N  THE HANDING  WITH L  OF AND HI  PROCED  PLIED B  REQUIRED	OT INDUAND USE  RBANT MOCAL S  GH HEAT  URES  Y SPRAY	JSH WIJCE VO	TH WATH MITING, AL OR S AND FEL THEN US Special Other	ER, IF GIVE SAND DERAL SE NIO N	LARGE CAI REGULAT	AMOUN	TS_C SICI	OF WATE