U.S. Department	of Labor		
Occupational Safe	ety and Health Admi	inistration	
(Non-Mandatory F	Form)		
Form Approved			
OMB No. 1218-00	072		
Note: Blank spaces ar	re not permitted		
If any item is not appic	able or no		
information is available	e, the space		
must be marked to ind	icate that		
	ne Number		
Telephone Number for Information			
Date Prepaid			
Signature of Prepare	er (optional)		
OSHA PEL	ACGIH TLV	Other limits	% (Ontional)
		Recommeded	
	Specific Gravity (H20 - 1)		
	Melting Point		
	Evaporation Rate		
	(Butyl Acetate - 1)		
Flammable	LEL	UEL	
Linits			
		00110.4=	
		OSHA 174, Sept. 1985	
	Occupational Safe (Non-Mandatory F Form Approved OMB No. 1218-00 Note: Blank spaces and If any item is not apploid information is available must be marked to ind Emergency Telephone Number for Information Date Prepaid Signature of Prepare OSHA PEL OSHA PEL	(Non-Mandatory Form) Form Approved OMB No. 1218-0072 Note: Blank spaces are not permitted If any item is not appicable or no information is available, the space must be marked to indicate that Emergency Telephone Number Telephone Number for Information Date Prepaid Signature of Preparer (optional) OSHA PEL ACGIH TLV OSHA PEL ACGIH TLV OSHA PEL ACGIH TLV Specific Gravity (H20 - 1) Melting Point Evaporation Rate (Butyl Acetate - 1) Flammable LEL	Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072 Note: Blank spaces are not permitted If any item is not appicable or no information is available, the space must be marked to indicate that Emergency Telephone Number Telephone Number for Information Date Prepaid Signature of Preparer (optional) OSHA PEL ACGIH TLV Other limits Recommeded Specific Gravity (H20 - 1) Melting Point Evaporation Rate (Butyl Acetate - 1) Flammable LEL UEL VOSHA 174,



Section V	-	Reactivity	Data	
Stablility	Unstable		Conditions to Avoid	
	Stable			
Incompatibility (M	aterials to Avoid)			
Hazardous Decor	mposition or Bypro	oducts	-	
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur			
Section VI	-	Health Haz	ard Data	
Route(s) of Entry	:	Inhalation?	Skin?	Ingestion?
Health Hazards (2	Acute and Chronic)			
Carcinogenicity:		NTP?	IARC Monographs?	OSHA Regulated?
Signs and Sympt	ons of Exposure			
Medical Condition	າຣ			
Generally Aggrav	ated by Exposure			
Emergency and F	First Aid Procedure	es		
Section VII	-	Precaution	s for Safe Handlin	g and Use
Steps to be Taker	n In Case Material	is Released or	^r Spilled	
Waste Disposal N	lethod			
Precautions to Be	e Taken In Handlin	g and Storing		
Other Precaution	5			
	-			
Section VIII	-	Control Me	asures	
Respiratory Prote	ction (Specify type	e)	-	
Ventilation	Local Exhaust		Special	
	Mechanical (Gen	eral)	Other	
Protective Gloves	;		Eye Protection	
Other Protective	Clothing or Equipr	nent	I	

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	Form)	
29 CFR 1910.1200. Standard must be	Form Approved	,	
consulted for specific requirements.	OMB No. 1218-00	172	
IDENTITY (As Used on Label and List)	Note: Blank spaces a		
Carbon steel : C1018	If any item is not appic		
	information is available		
	must be marked to ind		
Section I	must be marked to ind		
Manufacturer's Name: China Steel Corporation	Emergency Telepho	one Number: 886-7 80	
Address (Number,Street,City, State and Zip code): 1 chung kang road hsiao kang, Kaohsiung (812), Taiwan, Republic of China	Telephone Number for Information:886 7 802 1111		
	Date Prepaid		
	Signature of Prepar	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical			
Identity:) Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %			
C: Carbon: 1.7 - 1.21			
MN: manganese: 7 - 9			
P: Phosphous: 3 (MAX.)			
S Sulfur: 5 (MAX)			
SI: silicon: 0.5			
TTL AL: Total Aluminum: 3.5			
Section III - Physical/Chemical Characteristics	1	Specific Gravity	1
		(H20 - 1)	not applicable
Boiling Point: not applicable		Melting Point	
			1000 degree c
Vapor Pressure (mm Hg) not applicable		Evaporation Rate	
Vaport Density (AIR - 1): not applicable	1	(Butyl Acetate -	not appllicable
		1	
Solubility in Water: not soluble			
Appearance and Odor: solid			
Section IV - Fire and Explosion Hazard Date	Flammable Limits	LEL	
Flash Point (Method used): not acclicable	productns is not selfigniting		
Extinguishing Media: not applicable			
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none			
(Reproduce locally)	-		
(, top. oddoo loodiij)			



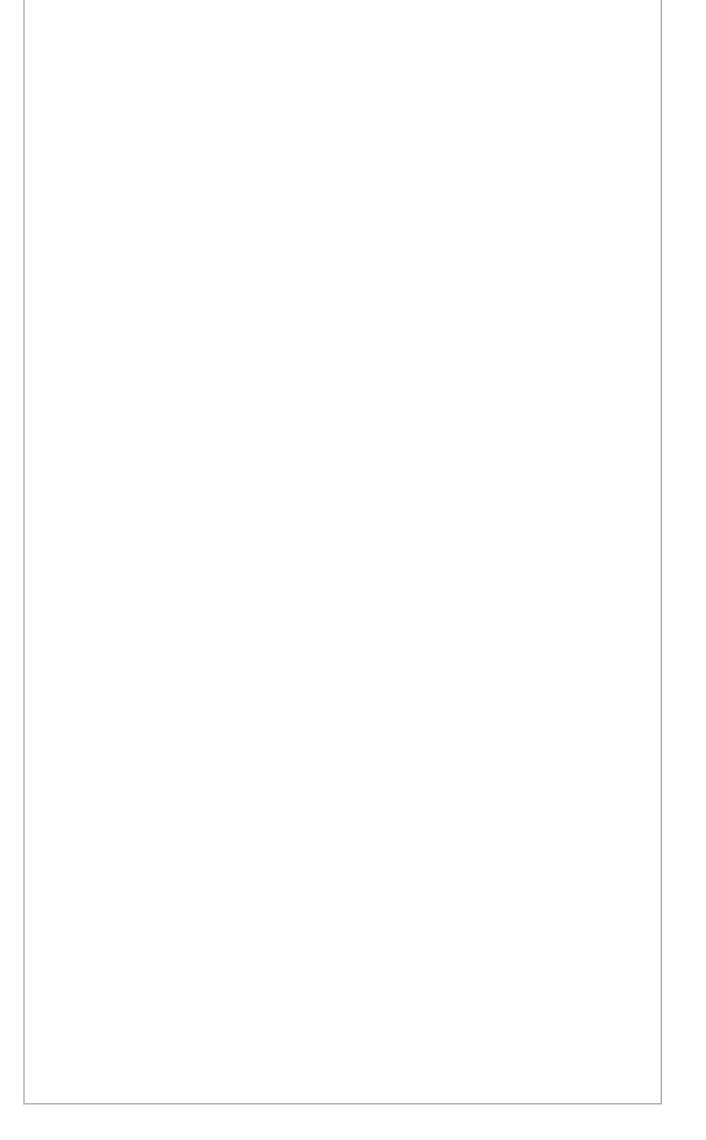
Section V	-	Reactivity	Data	
Stablility	Unstable		Conditions to Avoid	
	Stable	V		
Incompatibility (M	aterials to Avoid)			
Hazardous Decor	nposition or Bypro	oducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Haz	ard Data	
Route(s) of Entry	:	Inhalation?	Skin? V	Ingestion?
Health Hazards (2		teel products	in the solid state	
	or explosion haza			
	of other materia			
Carcinogenicity:		NTP?	IARC Monographs?	OSHA Regulated?
Signs and Sympton	ons of Exposure			
Medical Condition	าร			
Generally Aggrav	ated by Exposure			
Emergency and F	First Aid Procedure	es		
Section VII	-	Precaution	s for Safe Handlin	g and Use
Steps to be Taker	n In Case Material			
Waste Disposal N	lethod			
Precautions to Be	e Taken In Handlin	g and Storing		
Other Precautions	S			
Section VIII	-	Control Me	easures	
Respiratory Prote	ction (Specify type	e)		
Ventilation	Local Exhaust		Special	
	Mechanical (Gen	eral)	Other	
Protective Gloves	;		Eye Protection	

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	inistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	Form)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00	072	
IDENTITY (As Used on Label and List)	Note: Blank spaces a	re not permitted	
Carbon steel : C1022	If any item is not appic	able or no	
	information is available	e, the space	
	must be marked to ind	icate that	
Section I	1		
Manufacturer's Name: China Steel Corporation		ne Number: 886-7 80	21111
Address (Number,Street,City, State and Zip code): 1 chung kang road hsiao kang, Kaohsiung (812), Taiwan, Republic of China	Telephone Number for Information:886 7 802 1111		
	Date Prepaid		
	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %			
C: Carbon:1.8-2.3 MN: manganese: 7 - 1.0			
P: Phosphous: 3 (MAX.)			
S Sulfur: 5 (MAX)			
SI: silicon: 0.5			
TTL AL: Total Aluminum: 6.7			
Section III - Physical/Chemical Characteristics			
Boiling Point: not applicable		Specific Gravity	
Vapor Pressure (mm Hg) not applicable		(H20 - 1) Melting Point	not applicable
vapor r ressure (min rig) not applicable		Menning Point	1000 degree c
Vaport Density (AIR - 1): not applicable		Evaporation Rate	1000 degree c
		(Butyl Acetate -	not appllicable
Solubility in Water: not soluble	1		
Appearance and Odor: solid			
Section IV - Fire and Explosion Hazard Date			
Flash Point (Method used): not acclicable	Flammable Limits	LEL	
Extinguishing Media: not applicable	productns is not selfigniting		
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards none			
(Reproduce locally)			



-	Reactivity Dat	ta	
Jnstable		Conditions to Avoid	
Stable	v		
terials to Avoid)			
position or Bypro	ducts		
May Occur		Conditions to Avoid	
Will Not Occur	V		
-	Health Hazard	d Data	
	Inhalation? V	Skin? V	Ingestion?
cute and Chronic)			
combustible. St	eel products in t	he solid state	
-		ntribute to	
of other material			
	NTP?	IARC Monographs?	OSHA Regulated?
ns of Exposure			
6			
ted by Exposure			
rst Aid Procedure	S		
	Precautions f	or Safe Handling a	nd Use
- In Case Material			
ethod			
Taken In Handling	g and Storing		
_	Control Meas	ures	
	;)	Special	
Mechanical (Gene	eral)	Other	
		Eye Protection	
lothing or Equipm	nent	1	
	May Occur Will Not Occur Cute and Chronic) Combustible. St combustible. St combustible	Unstable Stable v Atterials to Avoid) aposition or Byproducts May Occur V Will Not Occur V - Health Hazaro Inhalation? V cute and Chronic) combustible. Steel products in t combustible. Steel products	Stable v iterials to Avoid) iposition or Byproducts May Occur Conditions to Avoid Will Not Occur V Inhalation? V Skin? V cute and Chronic) combustible. Steel products in the solid state explosion hazard and do not contribute to of other materials. Inhalation? V steel by Exposure IARC Monographs? ins of Exposure IARC Monographs? rst Aid Procedures Precautions for Safe Handling a In Case Material is Released or Spilled In Case Material is Released or Spilled ethod Control Measures ction (Specify type) Special Local Exhaust Special Mechanical (General) Other

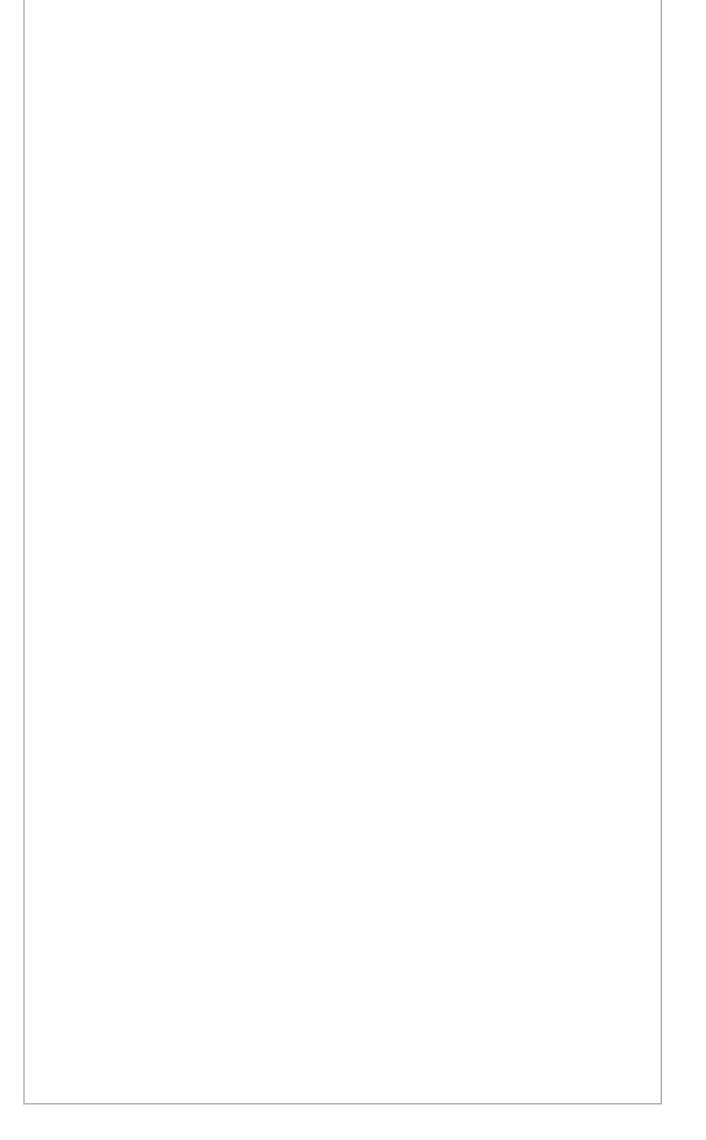
Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	inistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	orm)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00	72	
IDENTITY (As Used on Label and List)	Note: Blank spaces a		
Stainless steel 302	If any item is not appic		
	information is available		
	must be marked to ind	icate that	
Section I			
Manufacturer's Name: Min Hwei Enterprise.	Emergency Telepho	ne Number: 886-8 86	69611
Address (Number,Street,City, State and Zip code): No. 18, Yong Hsiang Road, Fong-Liao, Ping-Nan Industrial District, Ping Tung, Taiwan, Republic of China	Telephone Number for Information:886 8 8669611		
	Date Prepaid		
	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical			
Identity:) Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis, unit: %	Ni: Nickel:	8.06 - 8.19	
SI: silicon: 0.26 - 0.40	Cr. Chromium:	17.05 - 17.34	
P: Phosphous: 0.024 -0.026	Mo.: Molybdenum	0.11 - 0.15	
S Sulfur: 0.01	Cu: Copper	3.31 - 3.41	
C: Carbon: 0.016 - 0.02	N: 190 ppm		
Mn: Manganess: 1.73 -1.84			
Section III - Physical/Chemical Characteristics			
Boiling Point: not applicable		Specific Gravity (H20 - 1)	
Vapor Pressure (mm Hg) not applicable		Melting Point	
			1200 degree c
Vaport Density (AIR - 1): not applicable		Evaporation Rate	
		(Butyl Acetate -	not appllicable
Solubility in Water: not soluble			
Appearance and Odor: solid			
Section IV - Fire and Explosion Hazard Date			
Flash Point (Method used): not acclicable	Flammable Limits	LEL	
Extinguishing Media: not applicable	productns is not selfigniting	·	
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none (Reproduce locally)			



Section V	-	Reactivity Dat	ta	
Stablility	Unstable		Conditions to Avoid	
	Stable	V		
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	ducts	1	
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard	d Data	
Route(s) of Entry	:	Inhalation? none	Skin? none	Ingestion? not appllicable
Health Hazards (Acute and Chronic)	none		
Not flammable of	or combustible. S	teel products in t	he solid state present	no fire or explosion
hazard and do n	ot contribute to t	he combusition o	of other materials.	
Carcinogenicity:		NTP?	IARC Monographs?	OSHA Regulated?
Signs and Sympt		none	none	none
		none		
Medical Condition	ns	hone		
Generally Aggrav	ated by Exposure			
		none		
Emergency and F	First Aid Procedure			
		none		
Section VII	-		or Safe Handling a	nd Use
Steps to be Take	n In Case Material	is Released or Sp	illed	
		none		
Waste Disposal N	Nethod			
Dispose of the su	ibstance in accord	ance with the relat	ed laws and regulations	
wash your hands	e Taken In Handlin after handling it.	g and Storing		
will react with stro	ong acid to liberate	hudrogen		
Other Precaution	-			
Section VIII	-	Control Meas	ures	
Respiratory Prote	ection (Specify type	e)	1	
Ventilation	Local Exhaust		Special	
	none		none	
	Mechanical (Gen	eral)	Other	
	none		none	
Protective Gloves	6		Eye Protection	
rubber gloves	Clothing on Equip	aant	safety glasses	
	Clothing or Equipn			
Install a washstar	nd in workshop for	washing hands		

Work/Hygienic Practices: general protective and hygienic measures.

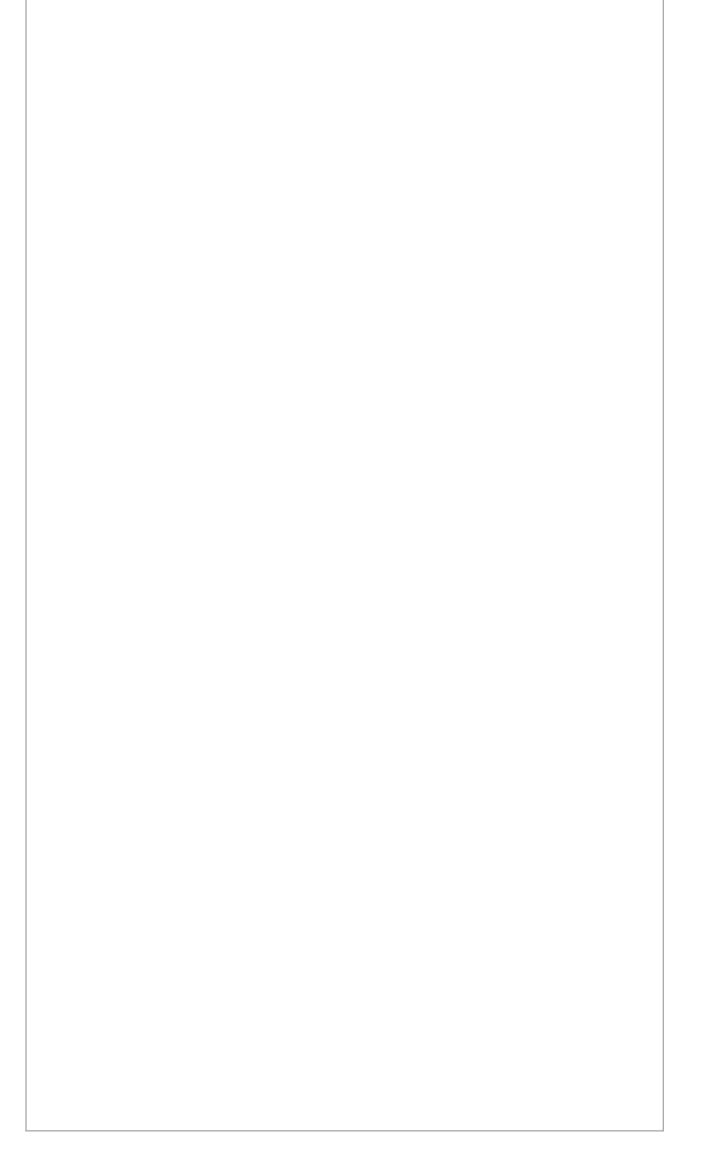
Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	inistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	orm)	
29 CFR 1910.1200. Standard must be	Form Approved	,	
consulted for specific requirements.	OMB No. 1218-00	72	
IDENTITY (As Used on Label and List)	Note: Blank spaces ar		
Stainless steel 316	If any item is not appic		
	information is available		
	must be marked to ind		
Section I			
Manufacturer's Name: Min Hwei Enterprise.	Emergency Telepho	ne Number: 886-8 86	69611
Address (Number,Street,City, State and Zip code): No. 18, Yong Hsiang Road, Fong-Liao, Ping-Nan Industrial District, Ping Tung, Taiwan, Republic of China	Telephone Number for Information:886 8 8669611		
	Date Prepaid		
-	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis, unit: %	Ni: Nickel:	10.76	
SI: silicon: 0.25	Cr. Chromium:	17.2	
P: Phosphous: 0.025	Mo.: Molybdenum	2.05	
S Sulfur: 0.002	Cu: Copper	3.1	
C: Carbon: 0.02	N: 150 ppm		
Mn: Manganess: 1.22			
Section III - Physical/Chemical Characteristics			
Boiling Point: not applicable		Specific Gravity (H20 - 1)	
Vapor Pressure (mm Hg) not applicable		Melting Point	1200 1
Vaport Density (AIR - 1): not applicable		Evaporation Rate	1200 degree c
			not appllicable
Solubility in Water: not soluble			
Appearance and Odor: solid			
Section IV - Fire and Explosion Hazard Date			
Flash Point (Method used): not acclicable	Flammable Limits	LEL	
Extinguishing Media: not applicable	productns is not selfigniting		
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none			
(Reproduce locally)			



Section V	-	Reactivity Dat	ta	
Stablility	Unstable		Conditions to Avoid	
	Stable	V		
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	ducts	1	
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard	d Data	
Route(s) of Entry	:	Inhalation? none	Skin? none	Ingestion? not appllicable
Health Hazards (Acute and Chronic)	none		
Not flammable of	or combustible. S	teel products in t	he solid state present	no fire or explosion
hazard and do n	ot contribute to t	he combusition o	of other materials.	
Carcinogenicity:		NTP?	IARC Monographs?	OSHA Regulated?
Signs and Sympt		none	none	none
		none		
Medical Condition	ns			
Generally Aggrav	ated by Exposure			
		none		
Emergency and F	First Aid Procedure			
		none		
Section VII	-		or Safe Handling a	nd Use
Steps to be Take	n In Case Material	is Released or Sp	illed	
		none		
Waste Disposal N	/lethod			
Dispose of the su	ibstance in accord	ance with the relat	ed laws and regulations	
wash your hands	e Taken In Handlin after handling it.	g and Storing		
will react with stro	ong acid to liberate	hudrogen		
Other Precaution	-			
Section VIII	-	Control Meas	ures	
Respiratory Prote	ection (Specify type	e)	1	
Ventilation	Local Exhaust		Special	
	none		none	
	Mechanical (Gen	eral)	Other	
	none		none	
Protective Gloves	6		Eye Protection	
rubber gloves	Clothing on Equip	aant	safety glasses	
	Clothing or Equipn			
Install a washstar	nd in workshop for	washing hands		

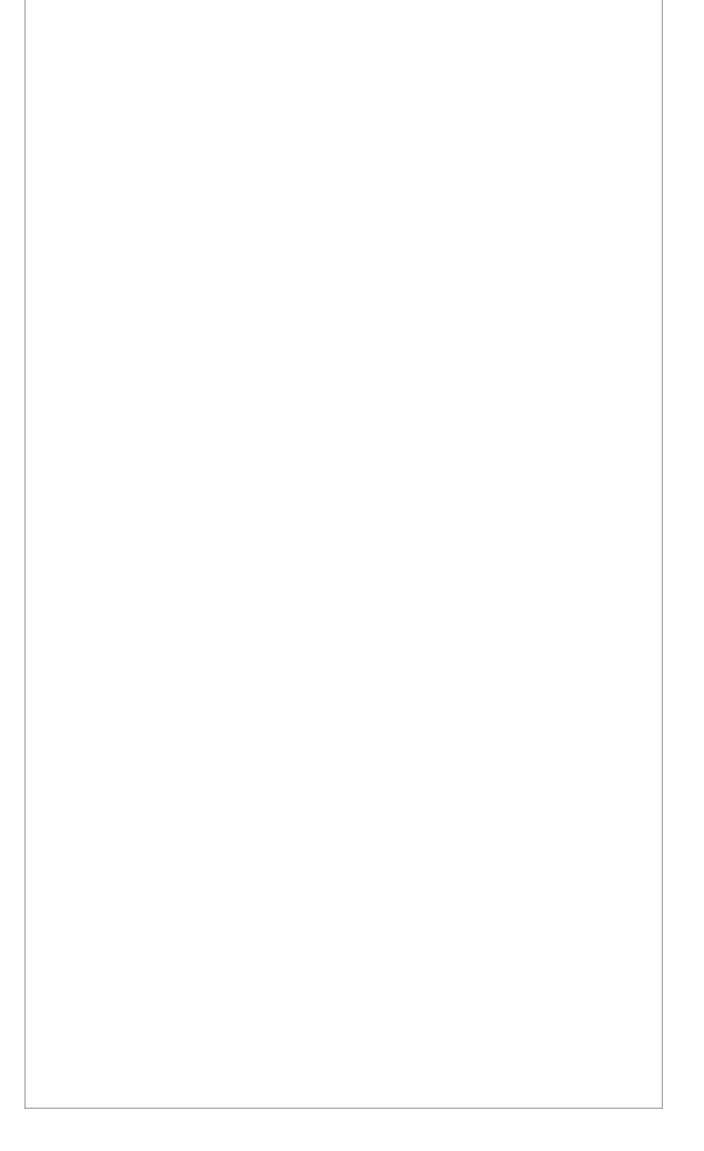
Work/Hygienic Practices: general protective and hygienic measures.

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	Form)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00)72	
IDENTITY (As Used on Label and List)	Note: Blank spaces a		
Clear ZINC	If any item is not appic	able or no	
	information is available		
	must be marked to ind	licate that	
Section I	1		
Manufacturer's Name: PASMINCO Metals PTY Limited			
Address (Number,Street,City, State and Zip code): p.o. box 1291k	Telephone Number for Information:886 3 9288 0333	one Number: 886-3 92	288 0333
	Date Prepaid		
	Signature of Prepar	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %	Thelling	0.0002	
Zinc :99.9961 Cadmium 0.0007	Thallium Aluminium	0.0002	
Copper 0.0001	Adminian	0.0002	
Iron 0.0003			
Indium 0.0004			
Lead 0.0016			
Tin 0.0004			
Section III - Physical/Chemical Characteristics		Specific Gravity (H20 - 1)	7.12
Boiling Point: 907° c		Melting Point	/.12
		5	419.5° c
Vapor Pressure (mm Hg) not applicable		Evaporation Rate	119.0 0
Vaport Density (AIR - 1): not applicable	1	(Butyl Acetate -	not appllicable
Solubility in Water: soluble			
Appearance and Odor: solid			
Section IV - Fire and Explosion Hazard Date	Flammable Limits	LEL	
Flash Point (Method used): nonflammable	productns is not selfigniting		
Extinguishing Media: not applicable			
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none			
(Reproduce locally)	-		



Section V	-	Reactivity Data		
Stablility	Unstable		Conditions to Avoid :	no decomposition
	Stable	V	if used according to sp	ec.
Incompatibility (M	aterials to Avoid)			
Hazardous Decor	nposition or Bypro	ducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry	:	Inhalation? None	Skin? None	Ingestion? not applicable
Health Hazards (2	Acute and Chronic)			
Not flammable o	r combustible. S	teel products in the s	olid state	
present no fire o	or explosion haza	rd and do not contril	oute to	
	of other materia			
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
Ciano and Current				
Signs and Sympton	ons of Exposure			
Medical Condition				
Generally Aggrav	ated by Exposure			
	none			
Emergency and F	First Aid Procedure	S		
	not applicable	-		
Section VII		Precautions for S	Safe Handling and	Use
	n In Case Material	is Released or Spilled		
'				
	not applicable			
Waste Disposal N	not applicable	the substance in acco	ordance with the related	laws and
Waste Disposal M regulations	not applicable	the substance in acco	ordance with the related	laws and
regulations	not applicable //ethod: dispose of		ordance with the related	laws and
regulations Precautions to Be	not applicable Aethod: dispose of	g and Storing		
regulations Precautions to Be wash your hands	not applicable Aethod: dispose of Taken In Handlin after handling it. A	g and Storing	ordance with the related	
regulations Precautions to Be	not applicable Aethod: dispose of Taken In Handlin after handling it. A e.	g and Storing		
regulations Precautions to Be wash your hands highly humid plac Other Precautions	not applicable Aethod: dispose of e Taken In Handlin after handling it. A e. s	g and Storing woid storing the subst		ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions	not applicable Aethod: dispose of e Taken In Handlin after handling it. A e. s	g and Storing woid storing the subst	ance in a high tempera	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions	not applicable Aethod: dispose of e Taken In Handlin after handling it. A e. s	g and Storing woid storing the subst	ance in a high temperat	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII	not applicable Aethod: dispose of e Taken In Handlin after handling it. A e. s	g and Storing void storing the subst point may liberate fume Control Measure	ance in a high temperat	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII	not applicable Method: dispose of Taken In Handling after handling it. A e. s bove the melting p	g and Storing void storing the subst point may liberate fume Control Measure	ance in a high temperat	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII Respiratory Prote	not applicable Aethod: dispose of after handling it. A e. s bove the melting p - ction (Specify type	g and Storing void storing the subst point may liberate fume Control Measure	ance in a high temperates oxides of zinc and all	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII Respiratory Prote	not applicable Aethod: dispose of after handling it. A e. s bove the melting p - ction (Specify type	g and Storing void storing the substant point may liberate fume Control Measure e)	ance in a high temperates oxides of zinc and all s	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII Respiratory Prote	not applicable Method: dispose of Taken In Handling after handling it. A e. s bove the melting p - ction (Specify type Local Exhaust	g and Storing void storing the substant point may liberate fume Control Measure e)	ance in a high temperates oxides of zinc and all s	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII Respiratory Prote	not applicable Method: dispose of Taken In Handling after handling it. A e. s bove the melting p - ction (Specify type Local Exhaust Mechanical (Gene	g and Storing void storing the substant point may liberate fume Control Measure e) none eral)	ance in a high temperates oxides of zinc and all s	ture or
regulations Precautions to Be wash your hands highly humid plac Other Precautions at pemperature a Section VIII Respiratory Prote Ventilation	not applicable Method: dispose of Taken In Handling after handling it. A e. s bove the melting p - ction (Specify type Local Exhaust Mechanical (Gene	g and Storing void storing the substant point may liberate fume Control Measure e) none eral)	ance in a high temperates oxides of zinc and all s	ture or
regulations Precautions to Bewash your hands highly humid place Other Precautions at pemperature a Section VIII Respiratory Prote Ventilation Protective Gloves rubber gloves	not applicable Method: dispose of Taken In Handling after handling it. A e. s bove the melting p - ction (Specify type Local Exhaust Mechanical (Gene	g and Storing woid storing the subst point may liberate fume Control Measure a) none eral) none	ance in a high temperates oxides of zinc and all s Special none Other none Eye Protection	ture or

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Saf	ety and Health Adm	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory I	⁼ orm)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00)72	
IDENTITY (As Used on Label and List)	Note: Blank spaces a	re not permitted	
Yellow Zinc	If any item is not appi	cable or no	
	information is availabl	e, the space	
	must be marked to inc	licate that	
Section I Manufacturer's Name: Meng Tai Trading Co., Ltd.	T		
		one Number: 886-6 2 886 6 2541698	54-1698
Address (Number, Street, City, State and Zip code): No. 14 Fu Chi 5th Street, Tainan City, Taiwan, R.O.C.	Telephone Number for Information:	000 0 204 1090	
	Date Prepaid		
	Signature of Prepar	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %			
Chromium Trioxide			
Section III - Physical/Chemical Characteristics	T	Specific Gravity	Г
		(H20 - 1)	1.06
Boiling Point: 103°c		Melting Point	
			196°c
Vapor Pressure (mm Hg) 18mm Hg	_	Evaporation Rate	
Vaport Density (AIR - 1): 0.931		(Butyl Acetate -	none
Solubility in Water: soluble			
Appearance and Odor: solid or liquid,	no odor,	orange color	
Section IV - Fire and Explosion Hazard Date	Flammable Limits	LEL	
Flash Point (Method used): nonflammable	productns is not selfigniting		
Extinguishing Media: not applicable			
Special Fire Fighting Procedures			
Unusual Fire and Explosion Hazards			
none			
	_		
(Reproduce locally)			



Section V	-	Reactivity Data		
Stablility	Unstable		Conditions to Avoid :	no decomposition
	Stable	v	if used according to sp	bec.
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	ducts	Γ	
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry	:	Inhalation? None	Skin? YES	Ingestion? YES
Υ.	Acute and Chronic)			
		teel products (screw)		
		rd and do not contrib	oute to	
	of other materia	Is. NTP? None		
Carcinogenicity:	none	INTE? NOTE	IARC Monographs?	OSHA Regulateu?
Signs and Sympt				
- <u>9</u> oypr	none			
Medical Condition				
Generally Aggrav	ated by Exposure			
	none			
Emergency and F	First Aid Procedure	es		
skin contact:	Immediately flush	skin with water for at	15 minute. If no comfor	rt receive medical
	treament.			
Ingestion		wash clean, give patie	ent drink some water.	
			tely drink some water .	If no comfort
	receive medical ti		•	
Section VII	-		Safe Handling and	Use
Steps to be Taker	n In Case Material	is Released or Spilled		
	centralize disposal	·		
Waste Disposal N	Method: dispose of	the substance in acco	ordance with the related	l laws and
regulations				
	e Taken In Handlin after handling it. A		ance in a high tempera	ture or
	ce. Don't put screv	vs in your mouth.		
Other Precaution				
at pemperature a	bove the melting p	ooint may liberate fume	es oxides of zinc and al	loying elements.
Section VIII	-	Control Measure	S	
Respiratory Prote	ection (Specify type	e)		
Ventilation	Local Exhaust	,	Special	
		none	none	
	Mechanical (Gen	eral)	Other	

		Outer
	none	none
Protective Gloves		Eye Protection
rubber gloves		safety glasses
Other Protective C	Clothing or Equipment	
Install a washstan	d in workshop for washing hands.	
Work/Hygienic Pra	actices	

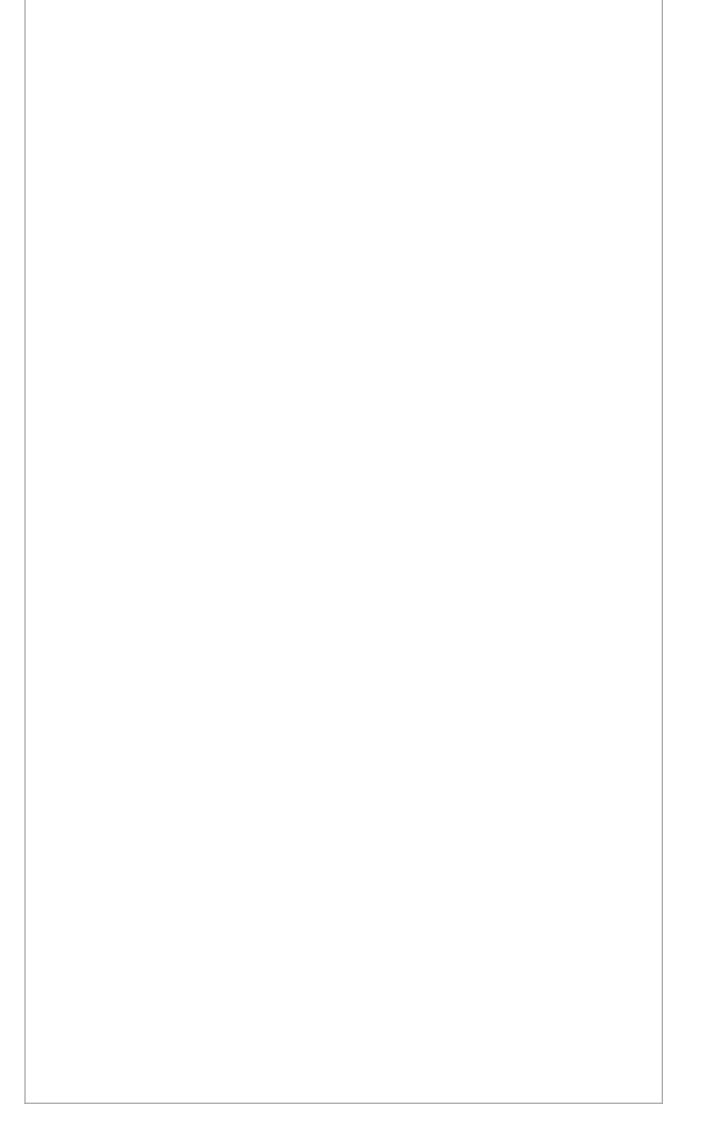
Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	inistration
OSHA'S Hazard Communication Standard	(Non-Mandatory Form)		
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00	172	
IDENTITY (As Used on Label and List)	Note: Blank spaces a		
Carbon steel	If any item is not appic		
	information is available	e, the space	
	must be marked to ind	icate that	
Section I	1		
Manufacturer's Name: China Steel Corporation		ne Number: 886-7 80)21111
Address (Number,Street,City, State and Zip code): 1 chung kang road hsiao kang, Kaohsiung (812), Taiwan, Republic of China	Telephone Number for Information:886 7 802 1111		
	Date Prepaid		
	Signature of Prepar	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical			
Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: % C: Carbon: 0.17 - 0.23			
C: Carbon: 0.17 - 0.23 MN: manganese: 0.7 - 0.9			
P: Phosphous: 0.03 (MAX.)			
S Sulfur: 0.05 (MAX)			
SI: silicon: 0.05			
TTL AL: Total Aluminum: 0.035 - 0.067			
BASS METAL			
IRON: BALANCE			
Section III - Physical/Chemical Characteristics			
Boiling Point: not applicable		Specific Gravity	
		(H20 - 1)	7.85
Vapor Pressure (mm Hg) not applicable		Melting Point	
			1000 degree c
Vaport Density (AIR - 1): not applicable		Evaporation Rate	
		(Butyl Acetate -	not appllicable
Solubility in Water: not soluble			
Appearance and Oder: colid_no Oder			
Appearance and Odor: solid , no Odor			
Section IV - Fire and Explosion Hazard Date			
Flash Point (Method used): not acclicable	Flammable Limits	LEL	
Extinguishing Media: not applicable	productns is not selfigniting		
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none (Reproduce locally)			



Section V - Reactivity Data				
Stablility	Unstable		Conditions to Avoid	
	Stable	V		
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	ducts	1	
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard	d Data	
Route(s) of Entry	:	Inhalation? none	Skin? none	Ingestion? not appllicable
Health Hazards (Acute and Chronic)	none		
Not flammable of	or combustible. S	teel products in t	he solid state present	no fire or explosion
hazard and do n	ot contribute to t	he combusition o	of other materials.	
Carcinogenicity:		NTP?	IARC Monographs?	OSHA Regulated?
Signs and Sympt		none	none	none
		none		
Medical Condition	ns			
Generally Aggrav	ated by Exposure			
		none		
Emergency and F	First Aid Procedure			
		none		
Section VII	-		or Safe Handling a	nd Use
Steps to be Take	n In Case Material	is Released or Sp	illed	
		none		
Waste Disposal N	Nethod			
Dispose of the su	ibstance in accord	ance with the relat	ed laws and regulations	
wash your hands	e Taken In Handlin after handling it.	g and Storing		
will react with stro	ong acid to liberate	hudrogen		
Other Precaution	-			
Section VIII	-	Control Meas	ures	
Respiratory Prote	ection (Specify type	e)	1	
Ventilation	Local Exhaust		Special	
	none		none	
	Mechanical (Gen	eral)	Other	
	none		none	
Protective Gloves	6		Eye Protection	
rubber gloves	Clothing on Equip	aant	safety glasses	
	Clothing or Equipn			
Install a washstar	nd in workshop for	washing hands		

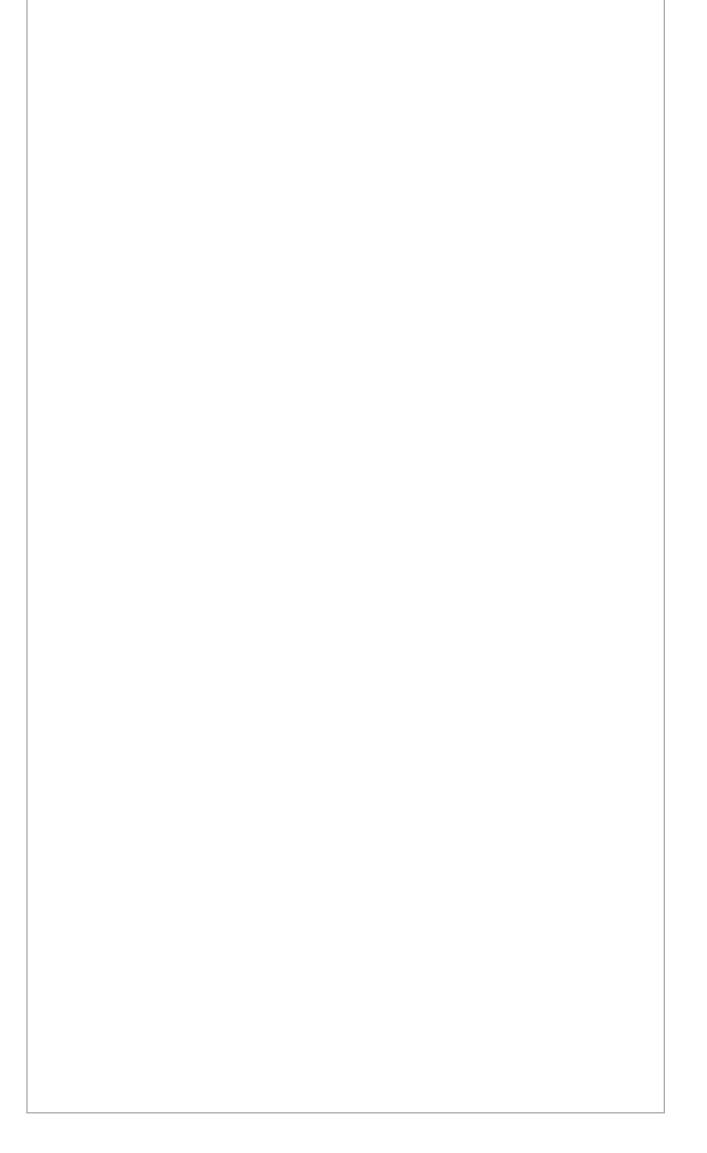
Work/Hygienic Practices: general protective and hygienic measures.

Material Safety Data Sheet	U.S. Department of Labor
May be used to comply with	Occupational Safety and Health Administration
OSHA'S Hazard Communication Standard	(Non-Mandatory Form)
29 CFR 1910.1200. Standard must be	Form Approved
consulted for specific requirements.	OMB No. 1218-0072
IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted
PHOSPHATE	If any item is not appicable or no
	information is available, the space
	must be marked to indicate that
Section I	
Manufacturer's Name: Arphar industrial Co., Ltd.	Emergency Telephone Number: 886-7-6978846
Address (Number,Street,City, State and Zip code): No. 475 Da Tong Road, Lu-Chu, Kaohsiung Hsien, Taiwan, R.O.C.	Telephone 886-7-6978846 Number for Information:
	Date Prepaid
	Signature of Preparer (optional)
Section II- Hazardous Ingredients / Identity Information	
Hazardous Components (Specific Chemical Identity:)	
Common Name(s)	OSHA PEL ACGIH TLV % (Optional)
Chemical analysis , unit: %	
Phosphate Acid : 35	
Zinc Oxide: 15	
Water: 29	
Nitric Acid 20 Other : 1	
Questions III - Diversional/Objectional Objects visition	Specific Gravity
Section III - Physical/Chemical Characteristics	(H20 - 1) 1.58+/ 0.02g/cm3
Boiling Point: Not determined	Melting Point
	Not applicable
Vapor Pressure (mm Hg) 25°c =1.0atm	Evaporation Rate
Vaport Density (AIR - 1): 12 s	(Butyl Acetate - 1-3%
Solubility in Water: soluble	
Appearance and Odor: solid , no Odor	
Section IV - Fire and Explosion Hazard Date	Flammable LEL Limits None
Flash Point (Method used): nonflammable	product is not
, , , , , , , , , , , , , , , , , , ,	selfigniting
Extinguishing Media: not applicable	
Special Fire Fighting Procedures	
Unusual Fire and Explosion Hazards	
none	
	_
(Reproduce locally)	



Section V	-	Reactivity Data		
Stablility	Unstable		Conditions to Avoid :	no decomposition
	Stable	V	if used according to sp	Dec.
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	ducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry		Inhalation? None	Skin? None	Ingestion? not applicable
Health Hazards (Acute and Chronic)			
Not flammable o	r combustible. S	teel products in the s	solid state	
present no fire o	or explosion haza	rd and do not contril	oute to	
the combusition	of other materia	-		
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
	none			
Signs and Sympt				
Medical Condition	none			
Generally Aggrav	ated by Exposure			
	none			
Emergency and F	First Aid Procedure	S		
		-		
Section VII	not applicable	Precautions for	Safe Handling and	Use
	 In Case Material	is Released or Spilled		
	not applicable			
	11			
Waste Disposal N	lethod: dispose of	the substance in acco	ordance with the related	l laws and
regulations				
	e Taken In Handlin		ance in a high temperat	turo or
			ance in a nightempera	
Other Precaution	e. Don't put screv	və ili your mouln.		
at nemperature a		oint may liberate fume	es oxides of zinc and all	loving elements
at pemperature a		oint may liberate fume	es oxides of zinc and all	loying elements.
at pemperature a Section VIII		ooint may liberate fume		loying elements.
Section VIII	bove the melting p	Control Measure		loying elements.
Section VIII Respiratory Prote	bove the melting p	Control Measure	S	loying elements.
Section VIII	bove the melting p	Control Measure	s Special	loying elements.
Section VIII Respiratory Prote	bove the melting p - ection (Specify type Local Exhaust	Control Measure	S	loying elements.
Section VIII Respiratory Prote	bove the melting p	Control Measure	S Special none	loying elements.
Section VIII Respiratory Prote	- - - Local Exhaust Mechanical (Gen	Control Measure	Special none Other	loying elements.
Section VIII Respiratory Prote Ventilation	- - - Local Exhaust Mechanical (Gen	Control Measure	S Special none Other none	loying elements.
Section VIII Respiratory Prote Ventilation Protective Gloves rubber gloves	- - - Local Exhaust Mechanical (Gen	Control Measure	Special none Other none Eye Protection	loying elements.

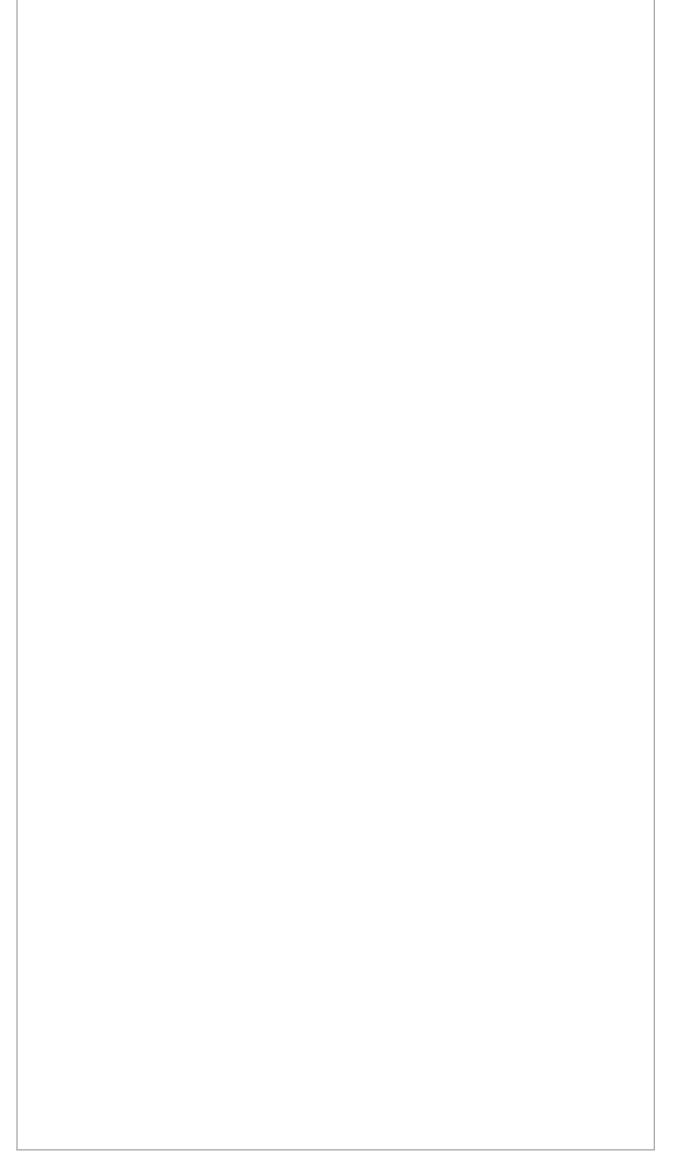
Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adn	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	Form)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00	72	
IDENTITY (As Used on Label and List)	Note: Blank spaces a		
BLACK PHOSPHATE	If any item is not appic		
	information is available	e, the space	
	must be marked to ind	icate that	
Section I	T		
Manufacturer's Name: GOLD HEAD CHEMICALS Co., Ltd.		na Numbar: 996 760	00000
Address (Number, Street, City, State and Zip code): 1F, No. 50. DA REN STREET, GANG SHAN TOWN, Kaohsiung Hsien, Taiwan, R.O.C.	Emergency Telepho Telephone Number for Information:	886-7-6983008	00000
	Date Prepaid		
	Signature of Prepar	er (optional)	
Section II- Hazardous Ingredients / Identity Information	•		
Hazardous Components (Specific Chemical			
Identity:) Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %	001111122		78 (Optional)
orthophsphoric acid : 50			
			_
Section III - Physical/Chemical Characteristics	Specific Gravity		
	(H20 - 1)	1.56+ 0.01	
Boiling Point: 100°C	Melting Point		
		1000 degree c	
Vapor Pressure (mm Hg)	Evaporation Rate		
Vaport Density (AIR - 1):	(Butyl Acetate -		
Medicament no volatilise.		-	
Solubility in Water: dissolution 100%			
Appearance and Odor:green liquid, no Odor			
Section IV - Fire and Explosion Hazard Date	Flammable Limits	LEL	Nega
Flash Point (Method used): nonflammable		product is not	None
Extinguishing Media: not applicable		selfigniting	
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards			
none			
(Reproduce locally)	-		



Section V	-	Reactivity Data		
Stablility	Unstable		Conditions to Avoid :	no decomposition
	Stable	V	if used according to sp	bec.
Incompatibility (M	aterials to Avoid)			
Hazardous Decor	nposition or Bypro	ducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry	:	Inhalation? None	Skin? YES	Ingestion? YES
Health Hazards (2	Acute and Chronic)			
Not flammable o	r combustible. S	teel products (screw)) in the solid state	
		rd and do not contrib	oute to	
	of other materia			
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
Signe and Summer	none			
Signs and Sympton	none			
Medical Condition				
Generally Aggrav	ated by Exposure			
	none			
Emergency and F	First Aid Procedure	es		
skin contact:			15 minute. If no comfor	t receive medical
SKIT CONIACI.		I SKITI WILLI WALEF IOF AL		
	treament.			
Ingestion	Do not forced spit	t, use water mouth was	sh clean, give patient d	rink some water.
	if patient have pu	ke condition, immediat	tely drink some water .	If no comfort
	receive medical ti	reatment.		
Section VII	-	Precautions for §	Safe Handling and	Use
Steps to be Taker	n In Case Material	is Released or Spilled		
	centralize disposal			
Waste Disposal M	lethod: dispose of	the substance in acco	ordance with the related	laws and
regulations				
	Talaan ka Ulan diin			
	e Taken In Handling after handling it. A		ance in a high temperat	ture or
	e. Don't put screv			
Other Precautions				
at pemperature a	bove the melting p	ooint may liberate fume	es oxides of zinc and all	oying elements.
Section VIII	_	Control Measure	S	
Respiratory Prote	ction (Specify type	5)		
Ventilation	Local Exhaust	-,	Special	
		none	none	
	Mechanical (Gen		Other	
	Ì	nono	nono	

		Other
	none	none
Protective Gloves	3	Eye Protection
rubber gloves		safety glasses
Other Protective	Clothing or Equipment	
Install a washstar	nd in workshop for washing hands.	
Work/Hygienic Pr	actices	

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	orm)	
29 CFR 1910.1200. Standard must be	Form Approved		
consulted for specific requirements.	OMB No. 1218-00	72	
IDENTITY (As Used on Label and List)	Note: Blank spaces ar		
RUSPERT COATING	If any item is not appic		
	information is available	e, the space	
	must be marked to ind	icate that	
Section I			
Manufacturer's Name: Taiwan Inn Sinn Ruspert co., Ltd. (Nihon Ruspert co., Ltd.)	Emergency Telepho	ne Number: 886-769	6973115
Address (Number,Street,City, State and Zip code): 300-1, Fu Shi Rd., Lu Chu Hsiang Kaohsiung Hsien, Taiwan, R.O.C.	Telephone Number for Information:	886-7-6973115 Taiwan Japan>	81-724328711
	Date Prepaid		
	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity			
Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %			
RESIN (POLYESTER, MELAMINE, EPOXY,			
CILICONE) FILLER	ETHER		
	SOLVENT		
PIGMENT	ETHER		
ALUMINUM POWER	SOLVENT ALCOHLIC		
XYLENE	SOLVENT ADDITIVE		
BUTYL CELLOSOLVE			
BUTANOL			
AROMATIC HYDROCARBON SOLVENT			
Section III - Physical/Chemical Characteristics	Specific Gravity (H20 - 1)	1.56+ 0.01	
Boiling Point: 137 - 140°C	Melting Point		
		1000 degree c	
Vapor Pressure (mm Hg) 6-6.5 @20 C	Evaporation Rate	3.7	
Vaport Density (AIR - 1): 0.86			
Medicament no volatilise.			
Solubility in Water: dissolution 100% 130 mg/l			
Appearance and Odor:W/O color, liquid, no	Odor		
Section IV - Fire and Explosion Hazard Date	Flammable Limits	LEL	NONE
Flash Point (Method used): nonflammable		product is not selfigniting	
Extinguishing Media: not applicable			
Special Fire Fighting Procedures			
none			
Unusual Fire and Explosion Hazards none			
(Reproduce locally)	-		



Section V	-	Reactivity Data		
Stablility	Unstable		Conditions to Avoid :	no decomposition
	Stable	V	if used according to sp	bec.
Incompatibility (M	aterials to Avoid)			
Hazardous Decor	nposition or Bypro	ducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry:	:	Inhalation? None	Skin? YES	Ingestion? YES
Health Hazards (2	Acute and Chronic)			
Not flammable o	r combustible. S	teel products (screw)) in the solid state	
present no fire o	or explosion haza	rd and do not contrib	oute to	
	of other material			
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
	none			
Signs and Sympton				
Medical Condition	none			
	ated by Exposure			
, , , , , , , , , , , , , , , , , , , ,	•			
Emergency and F	none			
	First Aid Procedure			
skin contact:	Immediately flush	skin with water for at	15 minute. If no comfor	t receive medical
	treament.			
Ingestion	Do not forced spit	t, use water mouth was	sh clean, give patient d	rink some water.
	if patient have pu	ke condition, immediat	tely drink some water .	If no comfort
	receive medical tr	reatment.		
Section VII	-		Safe Handling and	Use
Steps to be Taker	n In Case Material	is Released or Spilled		
	centralize disposal	,		
Waste Disposal M	lethod: dispose of	the substance in acco	ordance with the related	laws and
regulations				
	e Taken In Handling after handling it. A		ance in a high temperat	ture or
highly humid plac	e. Don't put screw	vs in your mouth.		
Other Precautions	S			
at temperature ab	pove the melting po	oint may liberate fumes	s oxides of zinc and allo	oying elements.
Section VIII	-	Control Measure	S	
Respiratory Prote	ction (Specify type	e)		
Ventilation	Local Exhaust		Special	
		none	none	
	Mechanical (Gen	eral)	Other	
	· · ·	2020	nono	

		Other
	none	none
Protective Gloves	;	Eye Protection
rubber gloves		safety glasses
Other Protective	Clothing or Equipment	
Install a washstar	nd in workshop for washing hands.	
Work/Hygienic Pr	actices	

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adm	inistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	orm)	
29 CFR 1910.1200. Standard must be	Form Approved	- /	
	OMB No. 1218-00	70	
consulted for specific requirements. IDENTITY (As Used on Label and List)			
	Note: Blank spaces ar	re not permitted	
DACRO COATING	If any item is not appic	able or no	
	information is available	e, the space	
	must be marked to ind	icate that	
Section I Manufacturer's Name: NIPPON DACRO	1		
SHAMROCK Co., Ltd.	Emergency Telepho	ne Number: (LISA)	216-292-950
Address (Number, Street, City, State and Zip code):	Telephone	886-7-6973115	
296, Shimokurata-cho, Totsuka-Ku, Yokohama City, Kanagawa pref. 244-0815, Japan	Number for Information:	Taiwan Japan>	81-458643551
	Date Prepaid		
	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity		<u> </u>	
Information			
Hazardous Components (Specific Chemical Identity:)			
Common Name(s)	OSHA PEL	ACGIH TLV	% (Optional)
Chemical analysis , unit: %			45 - 65
METELLIC ZINC :PEL=5mg/m ² 8 hr TWA			(total pigment)
(zinc oxide fume)			
TLV=5mg/m ² 8 hr TWA	(zinc oxide, resplrable dust)		
TLV=5mg/m ² 8 hr TWA	(zinc oxide fume)		
METALLIC ALUMINUN:			
PEL=None established			
TLL=None established Ce-Solvent			
PEL=None established			
TLV=None established			30-40
Surfactants			
PEL=None established			<7
TLV=None established			
Section III - Physical/Chemical Characteristics	Specific Gravity (Water =1)	2.1 20° C	
Boiling Point: NA	Melting Point	NA	
Vapor Pressure (mm Hg) <2mm Hg	Evaporation Rate		
Vaport Density (AIR - 1): Heavier than air	(BuAc =1)	Slower than our	
Medicament no volatile.	(<u> </u>		
Solubility in Water: % by weight 35-50			
Appearance and Odor:Viseous metallic grey			
paste with slight, sweet alcoholic odor			
Section IV - Fire and Explosion Hazard Date	Flammable Limits	Lower: 0.7 upper:8.5	
Flash Point (Method used):115° F(closed cup)	I	product is not selfigniting	
Extinguishing Media: Smother with dry sand, dry ground limestone, or dry powder-type agents specially designed for metal powder fires. DO NOT use carbon tetrachloride, CO ₂ extinguishers, or water.		-	

Special Fire Fighting Procedures

cover container. Exclude air and or water. Pressure-demand, self-containedir breathing apparatus should be provided for fire fighters in buildings or confined areas where this product is stored.

Unusual Fire and Explosion Hazards

May produce hydrogen gas on contact with acide, alkali hydroxide, certain halogenated chemicals and water. Under certain conditions, moisture will react with zinc, e.g. water slowly dripping into open drum. (This will allow hydrogen to be formed.) Hydrogen gas is extremely flammable, and may reach an explosive concentration when mixed with air in a confined space.

Section V	-	Reactivity Data	-	
Stablility	Unstable		Conditions to Avoid :	
	Stable	V C IV	if used according to sp	
Medical conditions or effects as stated		ted by Exposure Condition	ons which have the same	symptems .
		a history of pulmenary o	r cardiac disoase should r	
	duct when heated at	• • •		
Incompatibility (N	laterials to Avoid)			
	mposition or Bypro	ducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V		
Section VI	-	Health Hazard Da	ata	
Route(s) of Entry	:	Inhalation? Yes	Skin? YES	Ingestion?
				YES
	Acute and Chronic)		in the cellid state	
present. do not		teel products (screw)	In the solid state	
-	of other materia	ls.		
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
Signs and Sympt	ons of Exposure			
Medical Condition	15			
	ated by Exposure			
Emergency and E	First Aid Procedure			
Eyes			ely then seek medical a	ttention.
	2			15 minutes holding lids .
		-	e surface. Washing eye	
	essential to achie	ve maximum effective	nass. Seek medical atte	ention immediately.
skin contact:	Wash with plenty	of water. Remove soil	ed clothing and featwea	ar.Wash clothing .
	before reuse. See	ek mdeical attention if	symptoooms are prese	nt.
inhalation	If symptoms are p	present, get person ou	t or atra to fresh air.	
	SEEK MEDICAL	ATTENTION.		
Ingestion	Never give anythi	naby mouth to an uno	onselous person. If awa	
Ingestion				
			es of water. If avaliable	
	several glasses o	f milk . If vomiting occu	urs spontaneously, Kee	p airway clear.
	SEEK MEDICAL			
Section VII	-		Safe Handling and	Use
	centralize disposal	is Released or Spilled		
· · · · · · · · · · · · · · · · · · ·	*	truck, Residual can be	e neutralized with dilute	acid.
		prevent slippery area		
Waste Disposal N	/lethod: Clean-up a	action should be carefu	Illy planned and execut	ed. Shipment,
and / or disposal	of waste materials	are regulated and act	ion to handle spilled or	released
		• •	exists.the appropriate a	
		er action being taken. age of waste should be	To aboid pressure build	-up due to
	e Taken In Handlin	-	e in venteu containers.	
			ance in a high temperat	ure or
highly humid plac	e. Don't put screv	vs in your mouth.		
Other Precaution				
at temperature at	ove the melting p	oint may liberate fume	s oxides of zinc and allo	bying elements.
Section VIII	-	Control Measure	 S	
	- ection (Specify type		-	
Ventilation	Local Exhaust	• /	Special	
		g controls are not feas	ible, use adequate loca	Il exhaust
	-	-	or welding where more	
	materilals my be	generated, use local e	xhaust ventilation.	
	Mechanical (Gen	eral)	Other	
Protective Gloves	I		Eye Protection	
rubber gloves			safety glasses	
	Clothing or Equipn	nent		
Install a washstar	nd in workshop for	washing hands.		
Work/Hygienic Pr	actices			

Material Safety Data Sheet	U.S. Department	of Labor	
May be used to comply with	Occupational Safe	ety and Health Adn	ninistration
OSHA'S Hazard Communication Standard	(Non-Mandatory F	orm)	
29 CFR 1910.1200. Standard must be	Form Approved	,	
		70	
consulted for specific requirements. IDENTITY (As Used on Label and List)	OMB No. 1218-00		
	Note: Blank spaces ar		
Wax gleitmo 615	If any item is not appic	able or no	
	information is available	e, the space	
	must be marked to ind	icate that	
Section I	1	+ 40	
Manufacturer's Name: Fuchs Lubritech Gmbh.		+49 (0)6374/924-5	
Address (Number,Street,City, State and Zip code):	Emergency Telepho Telephone	+49	
Hans -Reiner-Strais 7-13, D-67685 Weilerbach postbox 51, D-67683 Weilerbach	Number for Information:	(0)6374/924-5	
	Date Prepaid		
	Signature of Prepare	er (optional)	
Section II- Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical			
Identity:) Common Name(s)	OSHA PEL	ACGIH TLV	
Chemical analysis , unit: %	USHA PEL	ACGINITEV	% (Optional)
Cmemical characterization:			
aqueous emulsion with additives			 ca.10
Classification: xi.f R11-35-67			<u>ca. 10</u>
Section III - Physical/Chemical Characteristics	Specific Gravity (H20 - 1)		
Poiling Point: op. 10000	· ,	none	
Boiling Point: ca. 100°c	Melting Point		
Vapor Pressure (mm Hg) not determined	Evaporation Rate	none	
Vapor Pressure (nin hg) not determined Vaport Density (AIR - 1): ca. 1g/cm ³ 20°c		none	1
Medicament no volatilise.			
Solubility in Water: dissolution			
Appearance and Odor: liquid, white, hardly	noticeable		
Section IV - Fire and Explosion Hazard Date	Flammable	LEL	
	Limits		NONE
Flash Point (Method used): nonflammable		product is not selfigniting	
Extinguishing Media: not applicable			
Special Fire Fighting Procedures			
Suitable extingulshing material:			
Product does not burn, fire-extinguishing			
activitys according to surrounding.			
Unusual Fire and Explosion Hazards			
Fire gas of organic material has to be classed in			
variably as respiratory poison in fires, hazardous	-		
Carbon dioxide (CO2)			
cracking products of organic compounds			

Sulfur oxide

(Reproduce locally)

Section V - Reactivity Data				
Stablility	Unstable		Conditions to Avoid :	No hazardous
				reactions known.
	Stable	V	if used according to s	bec.
Incompatibility (N	laterials to Avoid)			
Hazardous Deco	mposition or Bypro	oducts		
Hazardous	May Occur		Conditions to Avoid	
Polymerization	Will Not Occur	V	none at appropriate hand	lling and storage
Section VI	-	Health Hazard D	ata	
Route(s) of Entry	<i>r</i> :	Inhalation? None	Skin? Yes	Ingestion? YES
irritability eye: ma	ay have irritating ef	fect.		
Health Hazards ((Acute and Chronic)			
Not flammable o	or combustible. S	teel products (screw) in the solid state	
present no fire o	or explosion haza	rd and do not contri	bute to	
the combusition	n of other materia	ls.		
Carcinogenicity:		NTP? None	IARC Monographs?	OSHA Regulated?
	none			
Signs and Sympt	tons of Exposure			
Medical Conditio	none			
	vated by Exposure			
Emorgonov and	none			
	First Aid Procedure			
skin contact:	in case of contac	t with skin wash off wit	h soap and water.	
Ingestion	do not induce vor	nitting. Refer to medic	al treament.	
Inhalation:	I case of inhalation	on, Ensure of fresh air.		
		mptoms refer for med		
Section VII	-		Safe Handling and	Use
	n In Case Material	is Released or Spilled	U	
			•	
Personal precaut	tions: Avoid skin co	ontact to draining liquid	l, use personal protecti	ve clothing.
· · · · · ·		/spillage of product.	· · ·	
Waste Disposal Method: dispose of the substance in accordance with the related laws and				
regulations				
Precautions to B	e Taken In Handlin	g and Storing		
Advice on safe handling: No special measures necessary if used correctly.				
Advice on protec	tion against fire an	d explosion: Pay atter	ntion to general rules of	intermal
fire prevention.				
		not store together wit		
			ance in a high tempera	ture or
	ce. Don't put screv	vs in your mouth.		
Other Precaution				
at temperature a	bove the melting p	oint may liberate fume	s oxides of zinc and all	oying elements.

Section VIII **Control Measures** -Respiratory Protection (Specify type) Ventilation Local Exhaust Special none none Mechanical (General) Other none none Protective Gloves Eye Protection safety glasses rubber gloves Other Protective Clothing or Equipment Install a washstand in workshop for washing hands. Work/Hygienic Practices