



Material Safety Data Sheet (complies with 29 CFR 1910.1200)

SECTION I					
Manufacturer's Name		En	orgonov I	Telephone Number	
Transworld Garnet Pvt. Ltd.			(208) 666	-	
Address (Street, City, State, Zip Cod	· ·		()	phone Number Information	
Tuticorin, India	6)		(208) 666		
Tuticorni, mula			· /	L.E. Gorrill 8/24/00	
SECTION II — Chemical Identity and In	formation on In	•			
Specific Chemical Identity:		Jiouronto			
	f ALMANDINE G	ARNET, having a ch	emical con	nposition of $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$ with Mn and Mg	
in partial substitution for Fe in the for	mula, and other	minerals. CAS No.:	1302-62-1	(Almandine).	
Hazardous Ingredients:				· · · ·	
The following substances are present	and regulated by	OSHA and ACGIH	limits:		
	<u>WT. %</u> <u>0</u> S	<u>ha/acgih</u> <u>limit in</u>	<u>I USE*</u>	*If these levels are	
Nuisance dust	na	15 mg/m ³		exceeded, adequate	
Respirable dust	na	5 mg/m ³		respiratory protection	
Crystalline silica	<0.5%	0.10 mg/m ³		must be employed.	
SECTION III — Physical and chemical o	haracteristics -				
Melting point Circa 1315°C		ic gravity (H₂0 = 1 .) - 4.1	0)		
Solubility in water Insoluble		ance and odor red, reddish brown	ı; no odor		
SECTION IV — Fire and explosion haza	rd data ———				
Flash point (method used) Material is a non-flammable solid.	-	able limits applicable	LEL na	UEL na	
Extinguishing media Use extinguishing media appropria	te for the surrou	ndina fire			
Special fire fighting procedures		inding in or			
As appropriate to surrounding fire.	Fire fighters she	ould be protected fro	om nuisan	ice dust.	
Unusual fire and explosion hazards	C C				
None					
SECTION V — Reactivity data ———					
Stability Unstable ()	Conditi	ons to avoid			
INERT Stable (x)	Alma		ert, stable s	solid needing no special	
Incompatibility (materials to avoid)	inalia				
None known					
Hazardous decomposition or byprodu None known	icts				
Hazardous May occur ()		ons to avoid			
Polymerization Will not occur (x)	Non	e known			

	ntry	Inhalation? Possible	Skin? None	Ingestion? None
	is (acute and chronic) n. Use care to limit possil	ole exposure to n	uisance dust during blast	cleaning.
	ty silica (quartz) ss than 0.5%	NTP?	IARC Monographs? No. 42 na	OSHA regulations 0.1 mg/m ³
• •	nptoms of exposure nuisance dust may caus	e eye, throat or lu	ng irritation, coughing, c	r shortness of breath.
	itions generally aggrava		es may be aggravated by	exposure to nuisance dust.
EYE CONTA	nd first aid procedures CT: Wash eyes with wate ACT: Wash affected area			
CTION VII —	Precautions for safe han	dling and use —		
NO SPECIA	Iken in case material is L PRECAUTIONS ARE NE of dust during clean up.			disposal. Prevent
	al methods I, state and federal guideli CONTAMINATED IN USE			
Follow local MATERIAL Precautions to NONE — Us	l, state and federal guideli	MAY REQUIRE S nd storing actices to reduce	PECIAL HANDLING.	, eye,
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia	l, state and federal guideli CONTAMINATED IN USE o be taken in handling a se good housekeeping pra tory protection when hand	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco	PECIAL HANDLING. dust; use approved hand	
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra- tory protection when hand ions I ONLY for the purposes st within federal or local	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco	PECIAL HANDLING. dust; use approved hand	
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du ECTION VIII — Respiratory p	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra tory protection when hand ions I ONLY for the purposes	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco TLV limits.	PECIAL HANDLING. dust; use approved hand orporate methods of dus	
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du ECTION VIII — Respiratory p	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra- tory protection when hand ions al ONLY for the purposes st within federal or local Control measures rotection (specify type)	MAY REQUIRE S actices to reduce dling material. intended, and inco TLV limits. r supplied hoods	PECIAL HANDLING. dust; use approved hand orporate methods of dus	
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du ECTION VIII — Respiratory p NIOSH/MSH Ventilation	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra- tory protection when hand ions al ONLY for the purposes st within federal or local Control measures rotection (specify type) IA approved filters and ai Local exhaust	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco TLV limits. r supplied hoods spa ning NC Oth	PECIAL HANDLING. dust; use approved hand orporate methods of dus for blasters. ecial DNE	
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du ECTION VIII — Respiratory p NIOSH/MSH Ventilation YES Protection glo	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra- tory protection when hand ions I ONLY for the purposes st within federal or local Control measures rotection (specify type) IA approved filters and ai Local exhaust Use when blast clea Mechanical (general) Meet dust TLV	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco TLV limits. r supplied hoods ning NC Oth NO	PECIAL HANDLING. dust; use approved hand orporate methods of dus for blasters. ecial DNE ler	t control to maintain
Follow local MATERIAL Precautions to NONE — Us and respirat Other precaut Use materia airborne du ECTION VIII — Respiratory p NIOSH/MSH Ventilation YES Protection glo Leather or e Other protecti	I, state and federal guideli CONTAMINATED IN USE b be taken in handling a se good housekeeping pra- tory protection when hand ions I ONLY for the purposes st within federal or local Control measures rotection (specify type) IA approved filters and ai Local exhaust Use when blast clea Mechanical (general) Meet dust TLV ives	MAY REQUIRE S nd storing actices to reduce dling material. intended, and inco TLV limits. r supplied hoods ning NC Oth NO Eye Sa t	PECIAL HANDLING. dust; use approved hand orporate methods of dus for blasters. ecial DNE e protection fety glasses with side shi	t control to maintain