Material Safety Data	a Sheet– Bronze I	Plus MoS2 Filled–	PTFE Products
			HIRDWEIGH
SECTION 1 - MANUFACTURER	S INFORMATION		
MANUFACTURER'S NAME	: HINDUSTA		
PHYSICAL ADDRESS		-23, MIDC Industrial	
PHONE NUMBER		, Miraj - 416 410 (Ma 644468, 2644868, 26	
FASCIMILE NUMBER	: 0091-233-2		-5172
E-MAIL ID		n.co.in; ceo@h-n.co.	in
EMERGENCY PHONE NUMBER	: 0091-93730	)54560, 9373056560	
SECTION 2 - PRODUCT IDENTI	FICATION		
PRODUCT NAME	: Bronze Plus	s MoS2 Filled Produc	ts
SYNONYMS	:		
CHEMICAL FAMILY MAJOR APPLICATIONS	: Fluorocarbo : Sealing	on Polymer	
MAJOR APPLICATIONS	. Seamy		
SECTION 3 - INGREDIENTS INF			
COMPONENTS Bronze Powder	CAS NUMBER	%AGE BY WEIGHT 40 - 60%	CHEMICAL FORMULA
Polytetrafluoroethylene	None 9002-84-0	40 - 80% 35 - 60%	Mixture-Copper (Cu) & Tin (Sn) ~C <sub>2</sub> F <sub>4</sub> ~
Molybdenum Sulfide	1317-33-5	0 - 10%	MoS <sub>2</sub>
-			-
SECTION 4 - HAZARDOUS ING			
COMPONENTS Bronze Powder	CAS NUMBER None	%AGE BY WEIGHI 40 – 60%	CHEMICAL FORMULA
Polytetrafluoroethylene	9002-84-0	40 - 80% 35 - 60%	Mixture-Copper (Cu) & Tin (Sn) ~C <sub>2</sub> F <sub>4</sub> ~
Molybdenum Sulfide	1317-33-5	0 - 10%	MoS <sub>2</sub>
			2
SECTION 5 - PHYSICAL DATA			
GENERAL PHYSICAL FORM BOILING POINT	:	Solid Not applicable	
MELTING POINT		320-340 deg C	
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	:	2.1 – 2.3 at 25 deg	С
EVAPORATION RATE (Butyl ace	etate=1) :	Not applicable	
SOLUBILITY IN WATER	:	Negligible	
APPEARANCE / COLOUR	:	Brownish Black	
ODOR	:	no odor	
SECTION 6 - FIRE AND EXPLO	SION HAZARD DAT	A	
FLASH POINT, METHOD	:	530-550 deg C, AS	
SELF IGNITION TEMPERATURE		520-560 deg C, AS	
LIMITING OXYGEN INDEX/ MET EXTINGUISHING MEDIA	HOD :	>95, ASTM D 2863 Water, foam, dry cl	
		appropriate for sur	
SPECIAL FIRE FIGHTING PROC	EDURES :	Wear self-containe	d breathing apparatus.
UNUSUAL FIRE AND EXPLOSIC	N HAZARDS ·	Wear full protective Products will emit	toxic fumes at high
		temperature	texte tumes at high
			without an external flame.
			ogen fluoride fumes which
			form hydrofluoric acid. Wear
			when handling refuse from a
			(Polytetrafluoroethylene). and flame goes out when
			is removed. Limited flame
			moke generation. Complies
		with definition	of "limited combustible
			elf-ignition and auto-ignition
		temperatures (AST	
			Apors produced in a fire are (HF), carbon monoxide, and
			orinated compounds.
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## SECTION 7 - HEALTH HAZARD DATA

<u>SECTION 7 - HEALTH</u>	
ACUTE EFFECTS OF	EXPOSURE
INGESTION :	Harmless
EYE CONTACT :	May cause eye irritation.
SKIN CONTACT :	Does not irritate human skin.
INHALATION :	Inhalation of fumes from overheating (above 300 deg C) PTFE
	(Polytetrafluoroethylene) may cause polymer fume fever, a temporary
	flu like illness with fever, chills, and sometimes cough, of
	approximately 24 hours duration. Trace amounts of carbonyl fluoride
	and hydrogen fluoride may also be evolved when PTFE is overheated or burned above 400 deg C.
	Inhalation of low concentrations of HYDROGEN FLUORIDE can initially
	include symptoms of choking, coughing, and severe eye, nose, and throat
	irritation. This is possibly followed after a symptomless period of one to
	two days by fever, chills, difficulty in breathing, cyanosis, and pulmonary
	edema. Acute or chronic overexposure to HF can injure the liver and kidneys.
	Inhalation, ingestion, or skin or eye contact with CARBONYL FLUORIDE
	may initially include: skin irritation with discomfort or rash; eye corrosion
	with corneal or conjectural ulceration; irritation of the upper respiratory passages; or temporary lung irritation
	effect with cough, discomfort, difficulty in breathing, or shortness of
	breath.
	Individuals with preexisting diseases of the lungs may have increased
	susceptibility to the toxicity of excessive exposures from thermal
	decomposition products.
CARCINOGENICITY:	Not listed
TOXICITY :	Physiologically inert & no toxicological effects
SECTION 7 - EMERGE	

## SECTION 7 – EMERGENCY AND FIRST AID PROCEDURES

INHALATION	:	No specific intervention is indicated as the PTFE Product is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed from fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.
SKIN CONTACT	:	The PTFE Product is not likely to be hazardous by skin contact.
EYE CONTACT	:	In case of contact, immediately flush eyes with plenty of water and get medical attention if irritation occurs.
INGESTION	:	No specific intervention is indicated as the PTFE Product is not likely to be hazardous by ingestion. If gastrointestinal symptoms develop, get medical attention.

## SECTION 8 – PERSONAL PROTECTION / PREVENTIVE MEASURES

RESPIRATORY	:	Where the material temperature is above 300 deg C, use a positive pressure supplied air respirator.
EYE PROTECTION PROTECTIVE CLOTHING	:	Not normally required. Not normally required.
OTHER PROTECTIVE EQUIPMENT VENTILATION	:	Not applicable. Provide local exhaust if PTFE Product is heated above 300 deg C.
		neated above 300 deg C.

SECTION 9 - REACTIVITY DATA		
STABILITY	:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID)	:	Molten alkali metals and interhalogen compounds.
HAZARDOUS DECOMPOSITION PRODUCTS	:	When heated above 300 deg C, may cause evolution of particulate matter, which can cause polymer fume fever. When heated above 400 deg, small amounts of hydrogen fluoride and perfluorohydrocarbons such as tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, and carbonyl fluoride may be evolved.
HAZARDOUS POLYMERIZATION	:	Will not occur

SECTION 10 - SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL : IS RELEASED OR SPILLED	Recover undamaged material, clean as needed, and reuse	
SECTION 11 – DISPOSAL PROCEDURES WASTE DISPOSAL METHODS RECYCLING : SANITORY LANDFILL : INCINERATION :	Yes Yes for quantities less than 50 Kgs Yes, with Incineration capable of scrubbing with hydrogen fluorine & other acidic combustion products.	
HAZARDOUS WASTE NUMBER :	Not Regulated	
SECTION 12 - STORAGE & HANDLING PROCEDU		
PRECAUTIONS TO BE TAKEN : IN HANDLING AND STORAGE :	Upto 250 <sup>o</sup> C – No Special Procedures Above 275 deg C, PTFE Product can Evolve toxic gaseous products. Provide good ventilation or respirator if there exists	
SPECIAL PRECAUTIONS :	a probability of exceeding 260 deg C. None	
SECTION 13 – TRANSPORTATION		
TRANSPORT HAZARDS CLASS ENVIRONMENT HAZARDS SPECIAL PRECAUTIONS FOR TRANSPORTERS	: N.A. : None : None	
SECTION 14 - SUITABILITY FOR SPECIAL APPLI	CATIONS	
FOOD CONTACT:PHARMACEUTICAL:HUMAN BODY INPLANTS:NUCLEAR:SPACE:	Not Suitable Not Suitable Not Suitable Stable Stable	
<u>SECTION 15 – INFORMATION ON ECOLOGY</u> This product is considered harmless to the environer material is biologically inert, non-biodegradable and biological waste treatment plants.		
CLASSIFICATION :	Not Regulated	
SECTION 16 – SUPPLIERS STATEMENT		
DISCLAIMER :	To the best of our knowledge the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. We strongly recommend that users seek and adhere to the manufacturers' or supplier's current instructions for handling each material they use and they satisfy themselves that they can meet all applicable safety and health standards.	