MATERIAL SAFETY DATA SHEET

Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200

	and List)	LESY BO	OND B				
Section I							
Manufacturer's Name				elephone Number			
NITTA CORPORATION			1-770-497-0212 (NITTA CORPORATION OF AMERICA, GA, USA)				
Address(Number,Street,City,State,and ZIP Code)			Telephone Number for Information				
4-26, SAKURAGAWA 4-CHOME, NANIWA-KU,			81-6-6563-1225 (NITTA CORPORATION, OSAKA, JAPAN)				
OSAKA, 556-0022, JAPAN			Date Prepared				
		06. NOV. 2002					
			Signature of F	Preparer(optional)		
Section II -Hazardous Ing	redients/Identity Info	rmation					
Hazardous Components	Common Nama(a))		OSHA PEL	ACCILITIN	Other Limits	% (optional)	
Specific Chemical Identity;	Common Name(s))	CAS No.	USHA PEL	ACGIH TLV	Recommended	(optional,	
tydrogen Carbovilio acid: E	ormic Acid(F-A)	64-18-6	TWA	TWA STEL	MSHA TWA	76	
Hydrogen Carboxilic acid; Formic Acid(F-A) 64-		U 10 U	5ppm	5ppm 10ppm		70	
			υρριτι	(9.4mg/m3)(19mg/r			
				(U.Ting/ IIIU/(Fillg/ I	DOT		
					Corrosive Materia	al	
B-Methyl Phenol ; m	-Cresol (m-C)	108-39-4	5ppm	5ppm	MSHA TWA		
			(Skin)	(22mg/m3)	Skin 5ppm(22mg/m3)	9	
					DOT		
					Corrosive Materia		
					NOISH REL TWA	\	
					10mg/m3		
Polyamide		24993-04-2	None	None	None	15	
Section III — Physical/Che	mical Characteristic						
Boiling Point	100.5°C(F-A)	5	Specific Grav	itv	1.22(F-A)		
John g T Onic	202.8 °C(m-C)		(H2O = 1)		1.03(m-C)		
Vapor Pressure(mm Hg)	33.1mmHg at 20°	C(F-A)	Melting Point		8.4°C(F-A)		
. прог. т. тооош о (т. д.	0.1mmHg at 20°C				11.5 °C(m-C)		
Vanor Density(AIR = 1)	1.6(F-A)	<u> </u>	Evaporation F		1.4(F-A)		
Vapor Density(AIR = 1)			(Butyl Acetate = 1)		0.01(m-C)		
Vapor Density(AIR = 1)	3.8(m-C)		(Duty) Acctau				
	3.8(m-C)		\Dutyl Acetau	<u>c – 17 </u>			
Solubility in Water	3.8(m-C) Free(F-A), 1ml/	40ml water at	-	0 – 1 <i>7</i>			
Solubility in Water Appearance and Odor	Free(F-A), 1ml/		25°C(m-C)				
Solubility in Water Appearance and Odor	Free(F-A), 1ml/		25°C(m-C)				
Solubility in Water Appearance and Odor Co Section IV—Fire and Expl	Free(F-A), 1ml/		25°C(m-C)	Phenolic Odor			
Solubility in Water Appearance and Odor Co Section IV — Fire and Expl Flash Point(Method Used)	Free(F-A), 1ml/ colorless or Yellowish cosion Hazard Data		25°C(m-C)	Phenolic Odor	(F-A) LEL 18	UEL 57	
Appearance and Odor Co Co Co Co Co Co Co Co Co	Free(F-A), 1ml/ colorless or Yellowish cosion Hazard Data		25°C(m-C)	Phenolic Odor		UEL 57 1.35	
Appearance and Odor Co Section IV — Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup)		25°C(m-C)	Phenolic Odor	(F-A) LEL 18		
Appearance and Odor Co Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Water Spray , Foam , Carbor	Free(F-A), 1ml/ colorless or Yellowish cosion Hazard Data m-C) (Closed Cup) nic Acid Gas		25°C(m-C)	Phenolic Odor	(F-A) LEL 18		
Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Water Spray , Foam , Carbor Special Fire Fighting Proced	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup) nic Acid Gas ures	Viscous Solut	25°C(m-C) on, Pungent, F Flammable Lir	Phenolic Odor nits Vol%	(F-A) LEL 18 m-C) 1.1	1.35	
Appearance and Odor Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Water Spray , Foam , Carbor Special Fire Fighting Proced Wear Rubber Gloves, Safety	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup) nic Acid Gas ures Goggles, Hose Mask	Viscous Solut	25°C(m-C) on, Pungent, F Flammable Lir	Phenolic Odor nits Vol%	(F-A) LEL 18 m-C) 1.1	1.35	
Appearance and Odor Co Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Nater Spray , Foam , Carbor Special Fire Fighting Proced Wear Rubber Gloves, Safety	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup) nic Acid Gas ures Goggles, Hose Mask	Viscous Solut	25°C(m-C) on, Pungent, F Flammable Lir	Phenolic Odor nits Vol%	(F-A) LEL 18 m-C) 1.1	1.35	
Appearance and Odor Co Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Nater Spray , Foam , Carbor Special Fire Fighting Proced Wear Rubber Gloves, Safety self-contained Breathing App	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup) nic Acid Gas ures Goggles, Hose Mask paratus	Viscous Solut	25°C(m-C) on, Pungent, F Flammable Lir	Phenolic Odor nits Vol%	(F-A) LEL 18 m-C) 1.1	1.35	
Appearance and Odor Co Section IV—Fire and Expl Flash Point(Method Used) 68.9°C(F-A), 81°C(Extinguishing Media Water Spray , Foam , Carbor Special Fire Fighting Proced Wear Rubber Gloves, Safety	Free(F-A), 1ml/ colorless or Yellowish osion Hazard Data m-C) (Closed Cup) nic Acid Gas ures Goggles, Hose Mask paratus Hazards	Viscous Solution	25°C(m-C) ion, Pungent, F Flammable Lir tect Mask for	Phenolic Odor mits Vol% Acid Gas with Fa	(F-A) LEL 18 m-C) 1.1	1.35	

Section V-Read	tivity Data						
Stability Unstable Condition to Avoid							
	Stable	×					
Incompatibility (Mat	erials to A	void)					
anoompadibility (mat	orialo to 7t		materials,	, organic acid, moisture			
Hazardous Decompo				nd Nituanan Ovidaa			
Combustion will product CO2 (and probably CO) and Nitrogen Oxides. Hazardous May Occur Conditions to Avoid							
Polymerization	May Occur Will Not Occur			Conditions to Avoid	ons to Avoid		
1 Olymonzacion			×				
Section VI-Healt	h Hazard [•	011.0			
Route(s) of Entry:		Inhalation ×	?	Skin ? ×		Ingestion ? ×	
Health Hazards (Acu	te and Chi						
		•	emely Irrit	ant	Skin ; Extreme	ely Irritant	
		Toxic; ML	_D(Rabbit)	239mg/kg (F-A)			
			D50 (Oral-	Rat) 2.02 g/kg (m-C)			
Carcinogenicity:	NTP ?			IARC Monographs?		OSHA Regulated?	
		None		None		None	
Signs and Symptoms	-						
Dangerously caustic	to skin. Ex	ctremely irr	ritant to ey	es, throat, skin.			
Medical Conditions							
	d by Eynos	eura.	(F-A)Chro	omic absorption has bee	an reported to	cause albuminuria, hematuria.	
				nage, nausea, vomiting, r			
Emergency and First			opucio dum	In case of contact, imr			
			sician If su			induce vomiting immediately by givi	
						e oxygen. Call a physician.	
Section VII—Preca					, 8	on a projection	
Steps to Be Taken i							
					hemicals(ex. so	oda ash, sodium carbonate) .	
Flush area with water				<u></u>			
Waste Disposal Meth	nod						
Burn in controlled in	cinerator o	or decompo	se in activ	ated sludge type waste	treatment pla	nt.	
Dispose in accordan				al Regulations.			
Precautions to Be T	aken in Ha	ndling and	Storing				
Store in cool, dry, da							
	t, sparks a	nd flames.	Keep the	bottle closed when not	in use.		
Other Precautions							
Avoid contact with s				mist.			
Use after well-under Section WII-Cont			ra.				
Respiratory Protecti							
Respiratory Protecti		y rype) uate ventila	ation in wo	rking area			
Ventilation	Local Exh		acioni iii wo	Trillig al ca	Special		
VOITGIAGION			Acceptab	le	Preferred		
	Mechanica	al(General)			Other		
ıd			Preferred			Preferred	
Protective Gloves				Eye Protect			
0.1 5	Rubber Gl				Safety Go	oggles	
Other Protective Cl	_		ava hath	mack			
Work/Hygienic Prac		e Clothing,	eye bath,	IIIdon			
	Not Know	n					