MATERIAL SAFETY DATA SHEET

Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200

Section I		Y BOND E					
Manufacturer's Name		Emergency Te	elephone Numbe	r			
NITTA CORPORATION				DRATION, OSAKA, JAP	AN)		
Address(Number, Street, City	v.State.and ZIP Code)	Telephone Number for Information					
4-26, SAKURAGAWA 4-CH				RATION, OSAKA, JAP	AN)_		
OSAKA, 556-0022, JAPAN		Date Prepared 11. JUN. 2009					
Section II –Hazardous In	gredients/Identity Information						
Hazardous Components				Other Limits	%		
(Specific Chemical Identity		OSHA PEL	ACGIH TLV	Recommended	(optional)		
	CAS No.	TWA	TWA	MSHA TWA	74		
Ethyl Acetate(E-A)	141-78-6	400ppm	400ppm (1440mg/m3)	400ppm (1400mg/m3)	71		
			(1440mg/ma)	(1400mg/ma)			
				DOT			
				Flammable Liquid	<u> </u>		
Polyisocyanate(NCO)	4151-51-3	None	None	None	27		
Chlorobenzene	108-90-7	75ppm	75ppm	75ppm	2		
				(350mg/m3)			
				DOT			
				Flammable Liquid	<u> </u>		
O TE							
Section Ⅲ—Physical/Ch Boiling Point	emical Characteristics	Specific Gravi	ity		<u>-</u>		
	77 °C(E-A)	(H2O = 1)		0.90(E-A)			
Vapor Pressure(mm Hg)	65mmHg at 20°C(E-A)	Melting Point		-82.4 °C(E-A)			
Vapor Density(AIR = 1)	3.04(E-A)	Evaporation R (Butyl Acetate		5.25(E-A)			
Solubility in Water	1 ml/10ml Water at 25°C(E React with water forming (c(E-A)					
Appearance and Odor Yellow to Brownish Liquid , I	Esterlike Odor						
Section IV - Fire and Exp	losion Hazard Data	[- 11 -		1151		
Flash Point(Method Used)		Flammable Lin	nits	LEL	UEL		

Flash Point(Method Used)	Flammable Limits	LEL	UEL	
-4 °C(E-A) (Closed Cup)	Vol.%	2 (E-A)	11.5 (E-A	
Extinguishing Media				
Extinguishing Powder, CO2 or Halones. In case of	of bigger fires , also Form and Water Spray.			
Special Fire Fighting Procedures				
Wear Rubber Gloves, Safety Goggles with Face S	Shield, Protective Clothing and			
self-contained Breathing Apparatus		·····	·····	
Unusual Fire and Explosion Hazards				
None under Normal Conditions. When Exposed to	<u>Heat or Flame, can React with Oxidizing M</u>	aterials.		
Combustion Products may be Toxic.				

O W Dage	Livia Dat							
Section V - Reactivity Data								
Stability	Unstable Condition to Avoid							
	Stable	×						
Incompatibility (Materials to Avoid)								
Water, Alcohol, Am								
Hazardous Decompo								
Combustion will prog				nd Nitrogen Ovide	96			
Hazardous			I	Conditions to A	roid			
	May Occur		Conditions to Avoid					
Polymerization	IACH AL L							
	Will Not C	ccur	×					
Section W-Heal	th Hazard							
Route(s) of Entry: Inhalation? Skin?)		Ingestion ?		
		×		3	×		×	
Health Hazards (Acu	ute and Ch	ronic)						
		Eye ; Irrita	ant	Skin:	Irritan	t.		
				Rat) 5600mg/kg (I		 		
		TOXIO, LL	oo (Olai I	tacy occornigy ag to	- 11/			
A		NTP ?		IADO	Manar	graphs?	OSHA Regulated?	
Carcinogenicity:					_	grapris :		
		None		INC	ne		None	
Signs and Symptom								
Excessive Exposure	can result	<u>in Irritatin</u>	g to Eyes a	and Skin.				
Medical Conditions								
Generally Aggravate	d by Expo	sure						
Eye , Skin Irritation.								
Emergency and Firs				In case of conta	ct imn	adiataly fluch a	ves or skin with	
			!! 16					
plenty of water at le	<u>ast Tomin.</u>	Call a priy	sician. IT sv	wanowed, induce v	/OHIICH	ig immediately o	У	
giving two glasses of	water and	sticking f	inger down	throat. Gall a phy	ysician			
Section WI-Prec						to fresh all	r.Call a physician.	
Steps to Be Taken								
Remove all sources	of ignition.	Reduce va	apors by ve	entilation.				
Take up with sand o	r absorben	t materials	s. Sweep or	r shovel into appr	oved d	lisposal containe	er.	
flush area with wate								
Waste Disposal Met								
Incinerate only in off		round innin	erator					
Discourse only in on	comittee Fa	doved inclin	e and lead	J. Dogulations				
Dispose in accordan	ce with re	uerai, Stat	e and Loca	ai regulacions.				
Precautions to Be Taken in Handling and Storing								
Store in cool, dry, dark and well-ventilated place. Avoid moisture.								
Do not use near heat, sparks and flames. Keep the bottle closed when not in use.								
Other Precautions								
Avoid contact with s	kin or eye:	<u>s, breathin</u>	g vapor or	mist.				
Transport information								
UN number: 1133 (Adhesive, containing inflammable liquid) Packaging group: II Label: 3								
Observe the Fire Defence Law.								
Containers must be piled firmly and orderly to avoid falling, tumbling and breaking								
Section WI-Cont			ily to avoic	Talling Carris III	ST. 101			_
Respiratory Protect			ante de la constantina					
			<u>ation in wo</u>	rking area				
Ventilation	Local Exhaust Acceptable				Special			
					Preferred			
	Mechanical(General)				Other			
			Preferred				Preferred	
Protective Gloves				Eye P	rotect	ion		
-··- · · · *	Rubber Gl	oves		-		Safety Gog	ggles	
Other Protective Cl				<u> </u>			,	
Other Protective Clothing or Equipment Protective Clothing								
Work/Hygienic Practices								
TOTAL TINGESTIC PRAC	Not Know	n						
	MOULT/NOW	11						