

# MATERIAL SAFETY DATA SHEET

Material						COMPANY II	DENTIF	Revi	N sion date an-08
	5000 SERIES PRODUCTS (MICROSERE®, TACWAX®) (See page 6 for a complete listing of 5000 series product numbers)				a11-00				
Previous revision da		File designati	on	Material	use	productianise	,		
24-Jul-07		Series\500	0	Variou	S				
	Manufacture's Name and issuing location THE INTERNATIONAL GROUP, INC.  EMERGENCY PHONE NUMBER				UMBER				
50 SALOME D	50 SALOME DRIVE 416 - 293 - 4151 day & night				& night				
TORONTO, ON	TARIO	, CANADA			41	uer's phone number 16 - 293 - 4151			
_					ctu	ring sites	ı		-
50 Salome Dr. Toronto, ON Canada M1S 2A8	146	S Highway North own, TX 20	Main	osh, WI		1100 East Main St. Titusville, PA 16354	45 Rou Smethr PA 167	oort	1140 Canal Boulevard Richmond, CA 94804
						IFORMATION adian Hazardou			
by OSHA 29 C			Silitou	-			011000		BIEE 07 07 01
	Chemical name Chemical family CAS No.  Not Applicable Petroleum Hydrocarbon See page 6				ao 6				
Not Applicable		SECTI	ON 3			DS IDENTIFIC	ATION	See pa	ge o
_		SECTI	ON 3	11/-1/-/	-11	DS IDENTIFIC	AIIION		<u>-</u>
				Emergei	ncy	Overview			
softe flow liqui tem gene	ening of the second sec	characteris e readily as application res well a	stics. s the te purpo above	Above it emperate sees and the sof	s s ure I re ten	perature exhibiting oftening point, to increases. The equires caution in ing point and uding possible of the control of the co	he materia materia in hand in cont	erial lique al is used ling. At act with	efies and I as a hot elevated air, the
		NTACT C	Contac	t with mo	olte	n material can re	esult in	severe b	ourns.
EYE	EYE CONTACT Direct contact of molten product to the eyes will cause thermal burns and eye injury.				vill cause				
INH	INHALATION Breathing fumes in confined areas can cause respiratory discomfort and possible irritation.								
Fire Hazard: 1		ealth Haza	rd: 0	( HM Reac	IS F tivit	,			e Section 8
0 = MINIMAL 1 =	SLIGH	IT HAZARD	2 = MO	DERATE	HA	ZARD 3 = SERIOU	IS HAZAI	RD 4 = SE	VERE HAZARD

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SEC	TION 3 HAZA	ARDS IDENTIFICAT	ΓΙΟΝ (CONTINUED)	
EYE CONTACT	Exposure to fum	es, vapors or smoke	from thermally degraded product can	
	cause irritation to	•	, , ,	
		,		
INHALATION	Evpocuro to vo	nore fumoe or eme	oke from molten material handled in	
INHALATION				
			n of respiratory tracts, and possible	
	physical discomi	ort to sensitive indivi	duals.	
INGESTION	This material is	essentially inert and	d non-toxic. Regardless of this the	
	material should	be handled with care	and not be ingested or put in mouth.	
SKIN	Skin contact with	molten material can	cause severe burns.	
	Chair Cornact With	· ····oico·· ····aco···a·· oa··	dado covoro barrio.	
	SECTION	4 FIRST AID ME	ASURES	
TVEC				
EYES			e of over heated product can result in	
			e molten material will cause eye injury	
			aterial eye shields must be worn at all	
			ush eyes with generous amounts of	
	water for at leas	t 15 minutes. Admin	ister prompt first aid measures. Call	
	a physician to a	ittend to the injury.		
SKIN	Exposure to fun	nes, vapors or smok	e of thermally degraded product can	
	result in irritation to skin. Direct contact of the molten material will cause injury and burns. For burns apply running water injured area for 15 minutes. Do not attempt to remove any material bonded to skin. Call a physician to attend to the injury.			
	physician to at	end to the injury.		
INILIAL ATION	Damaya individu	ما المريد المريد م	d area for freeb air and sell a	
INHALATION			d area for fresh air and call a	
	pnysician if res	piratory symptoms	warrant medical attention.	
INGESTION			on. If material is ingested, do not	
	induce vomiting	g. Call a physician.		
	<b>SECTION 5</b>	FIRE FIGHTING	MEASURES	
Flammability	If yes, unde	which conditions?		
YES [X] NO [ ] Will support a flame above flash point.			sh point.	
Means of extinction				
	, dry chemical or	CO <sub>2</sub> extinguisher. Do	o not use direct water stream.	
Special procedures				
Use water to keep c		LEVEL COLOR: -		
		and EXPLOSION D		
		explosion limit (% by volume)		
> 200°C 7.0%			0.9%	
		ammability classification	Hazardous combustion products	
·			CO <sub>2</sub> , CO (See Section 10)	
	Sensitivity to impact Rate of burning		Sensitivity to static discharge	
Not Applicable	Not Applicable	Not Applicable	e Not Applicable	



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### **SECTION 6 -- ACCIDENTAL RELEASE MEASURES**

SPILLS OR **LEAKS** 

Handle as a thermoplastic. With molten spills, allow the material to solidify and cool. Keep material out of sewers and watercourses by diking or impounding. Recover and place into appropriate containers for recycling or disposal, according to prevailing local, state and federal laws.

### **SECTION 7 -- HANDLING AND STORAGE**

When kept in molten state, inert gas blanketing may be used to avoid material degradation. As a solid, avoid contamination by keeping in closed containers.

#### **SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION**

This material will be utilized in molten form. Proper protective splash resistant clothing, thermal gloves, splash resistant shoes, and eye shields must be worn to prevent injury. Use molten material in well ventilated areas. When working in confined areas, use of appropriate respiratory gear is recommended.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Appearance White to dark amber	None - intermediate petroleum odor	Physical state Solid @ 25°C	Not Applicable	
Vapor pressure (mm Hg) < 0.01 @ 25°C	Vapor density (air = 1) > 5	Boiling point (IBP) > 300°C	Solubility in water (20°C) < 0.1%	
Evaporation rate (Butyl acetate =1) < 0.01	Freezing point Not Applicable	Volatiles (By volume) < 1.0%	Specific gravity (25°C) 0.91-0.94	
Coeff. water / oil distribution < 0.01	Melt point 60-95°C	Molecular weight Not Defined	Odor threshold (PPM) Not Available	

0.0.						
	SECTION 10 ST	<b>FABILITY AND REACTIVITY</b>				
Chemical stability	If no, which conditions?					
YES [X] NO [ ]						
Compatibility with other	If NO, which ones?					
substances	Strong oxidizing a	gents, eg., peroxides, chlorin	e			
YES [ ] NO [X]						
-	Reactivity, and under what conditions					
Stable						
Hazardous decomposition produ						
Carbon dioxide, carbon monoxide and other products such as aldehydes and ketones						
depending on conditions of oxidation						

depending on conditions of oxidation.

SECTION 11 TOXICOLOGICAL INFORMATION				
Carcinogenicity Classification Route of Entry				
IARC : Not listed	ACGIH: Not listed	Skin contact [ X ]		Inhalation acute [X]
OSHA: Not listed		Skin absorption [	]	Inhalation chronic [ X ]
NTP : Not listed		Eye contact [ ]		Ingestion [ ]

Effects of acute exposure to material

Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons. Molten product could cause thermal burns on contact with the skin.

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Effects of chronic exposure to material

In rats, chronic ingestion has shown accumulation in target organs (liver, spleen) with associated nonspecific immune response.

LD50 of material: Specify species & route Not Available	LC50 of material: Specify species Not Available	Exposure limit of material TLV/TWA 2 mg/m³ for paraffin wax fume (A.C.G.I.H)	Irritancy of material TLV set to prevent irritancy
Sensitizing capability of material Not known	Carcinogenicity / Mutagenicity of material Not carcinogenic by studies to date. Ames negative.	Reproductive effects of material None known.	Synergistic materials None known.

#### **SECTION 12 -- ECOLOGICAL INFORMATION**

Material is not considered harmful to the environment. Nevertheless, material from spills and other generated waste must be disposed of properly in conformance with all local, state and federal laws.

## **SECTION 13 -- DISPOSAL CONSIDERATIONS**

This material is not a RCRA hazardous waste material. Follow local regulatory laws for proper disposal.

SECTION 14 TRANSPORT INFORMATION			
DOT proper shipping name	Not regulated		
DOT hazardous classification	Not Applicable		
DOT Haz. Mat table 172.101	Not listed		
DOT appendix to sec. 172.101	Not listed		
DOT labels required	None		
DOT placards required	None for solid product. None for molten product shipped under 212°F/100°C. Hot molten product shipped over 212°F/100°C requires a class 9 "HOT" placard Bill of lading must carry the statement: Elevated temperature material, liquid, N.O.S. 9, UN3257, III (WAX).		
TDG classification	Not controlled under TDG (Canada).		

SECTION 15 REGULATORY INFORMATION				
See product's technical information sheet.				
This material is not reportable under 40 CFR Part 302.4.				
None according to 29 CFR 1910.1200.				
This material is not a RCRA hazardous waste.				
Sections 311 and 312: Not Applicable				
Section 313: None				
This product, or its ingredients as a mixture, appears on				
the toxic substances control act inventory.				
This is not a controlled material as defined by the				
Canadian Hazardous Products Act (Bill C70).				
Carcinogens: None, Adverse reproductive effects: None				
None				

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New Jersey Haz. Substance list	None
Pennsylvania Haz. Substance list	None
Canadian DSL status	Listed
CONEG	In compliance

## **SECTION 16 -- OTHER**

Source used:

A.C.G.I.H. (Documentation of threshold values), RTECS, IARC Monographs, Oxford Toxicology Forum, Special Meeting on Hydrocarbons.

Prepared by	Signature
I. Davie	Ian Davie

#### Disclaimer

This material safety data sheet is offered for your information only. We believe the statements, technical information and recommendations contained here in are reliable, but are given without warranty or guarantee of any kind, expressed or implied. THE INTERNATIONAL GROUP, INC. assumes no responsibility for any loss, damage or expense, direct or consequential, arising from the use of our material. It is the responsibility of the user to determine the suitability and completeness of such information for the required use or application. We do not assume any legal responsibility for nor do we give permission, inducement or recommendation to practice any patented invention without a license. Further, it is the user's obligation to utilize this material in full compliance with all health, safety and environmental regulations.

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PRODUCT		PRODUCT	
NUMBER	CAS NUMBER	NUMBER	CAS NUMBER
E704 A	62024 60 7	F004A	62224 60 7
5701A	63231-60-7	5801A	63231-60-7
5702A	63231-60-7	5802A	63231-60-7
5702B	63231-60-7	5803A	63231-60-7
5703A	63231-60-7	5803C	*
5704A	63231-60-7	5805A	63231-60-7
5705A	63231-60-7	5806A	63231-60-7
5706A	63231-60-7	5812A	63231-60-7
5707A	63231-60-7	5816A	63231-60-7
5708A	63231-60-7	5816B	63231-60-7
5709A	63231-60-7	5818A	63231-60-7
5713A	63231-60-7	5818B	63231-60-7
5714A	63231-60-7	5818D	63231-60-7
5714B	63231-60-7	5818E	63231-60-7
5714T	63231-60-7	5818F	63231-60-7
5714U	63231-60-7	5818U	63231-60-7
5715A	63231-60-7	5819A	63231-60-7
5718A	63231-60-7	5821A	63231-60-7
5720A	63231-60-7	5821F	63231-60-7
5721A	63231-60-7	5826A	63231-60-7
5723A	63231-60-7	5866A	63231-60-7
5724A	*	5871A	63231-60-7
5727A	63231-60-7	5871F	63231-60-7
5728A	*	5872A	63231-60-7
5733A	63231-60-7	5881A	63231-60-7
5735A	63231-60-7	5884A	63231-60-7
5737A	63231-60-7	5887A	63231-60-7
5748A	*	5888A	63231-60-7
5749A	63231-60-7	5888B	63231-60-7
5749B	63231-60-7	5889A	63231-60-7
5749C	63231-60-7	5890A	63231-60-7
5749D	63231-60-7	5896A 5896A	63231-60-7
5749E	63231-60-7	5897A	63231-60-7
			03231-00-7
5760A	63231-60-7 63231-60-7	5901A 5905A	*
5760U	63231-60-7		
5765A	03231-00-7	5906A	63231-60-7
5766A	*	5909A	63231-60-7
5767A	00004.00.7	5909F	63231-60-7
5788A	63231-60-7	5910A	63231-60-7
5788B	63231-60-7	5913A	63231-60-7
5788F	63231-60-7	5913F	63231-60-7
5788U	63231-60-7	5914A	63231-60-7
5790A	*	5981A	63231-60-7
5790C	*	5990A	63231-60-7
5792A	*	5992A	*
5798A	63231-60-7	5999A	63231-60-7
5799A	63231-60-7		
5799B	63231-60-7		CAS registry
5799C	63231-60-7	number for the	nis product.