



# THE INTERNATIONAL GROUP, INC.

## MATERIAL SAFETY DATA SHEET

Product Codes: 3117, 3214, 3212, 3126, 3209, 3153, 3206, 0070, 3115, 3203, 3118, 0117, 3220, 3223, 3033

### SECTION 1 -- PRODUCT AND COMPANY IDENTIFICATION

Material 5000 SERIES PRODUCTS (MICROSERE <sup>®</sup> , TACWAX <sup>®</sup> ) (See page 6 for a complete listing of 5000 series product numbers)		Revision date 31-May-10
Previous revision date 3-Mar-10	File designation Series\5000	Material use Various
Manufacture's Name and issuing location THE INTERNATIONAL GROUP, INC.  50 SALOME DRIVE TORONTO, ONTARIO, CANADA M1S 2A8		<b>EMERGENCY PHONE NUMBER</b>  <b>416 - 293 - 4151 day &amp; night</b>  Issuer's phone number 416 - 293 - 4151

#### Manufacturing sites

50 Salome Dr. Toronto, ON Canada M1S 2A8	7106 Highway 146 North Baytown, TX 77520	2875 North Main St. Oshkosh, WI 54901	1100 East Main St. Titusville, PA 16354	45 Route 446 Smethport PA 16749	1140 Canal Boulevard Richmond, CA 94804
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### SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

No hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.

Chemical name Not Applicable	Chemical family Petroleum Hydrocarbon	CAS No. See page 6
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### SECTION 3 -- HAZARDS IDENTIFICATION

#### Emergency Overview

The material is a solid at room temperature exhibiting elevated temperature softening characteristics. Above its softening point, the material liquefies and flows more readily as the temperature increases. The material is used as a hot liquid for application purposes and requires caution in handling. At elevated temperatures well above the softening point and in contact with air, the generation of hydrocarbon vapors including possible oxidized products may be expected.

SKIN CONTACT	Contact with molten material can result in severe burns.
EYE CONTACT	Direct contact of molten product to the eyes will cause thermal burns and eye injury.
INHALATION	Breathing fumes in confined areas can cause respiratory discomfort and possible irritation.

#### Potential Health Effects

(HMIS Rating)

Fire Hazard: 1    Health Hazard: 0    Reactivity: 0    Personal Protection: See Section 8

0 = MINIMAL    1 = SLIGHT HAZARD    2 = MODERATE HAZARD    3 = SERIOUS HAZARD    4 = SEVERE HAZARD



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### SECTION 3 -- HAZARDS IDENTIFICATION (CONTINUED)

EYE CONTACT	Exposure to fumes, vapors or smoke from thermally degraded product can cause irritation to eyes.
INHALATION	Exposure to vapors, fumes, or smoke from molten material handled in confined areas can produce irritation of respiratory tracts, and possible physical discomfort to sensitive individuals.
INGESTION	This material is essentially inert and 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.

### SECTION 4 -- FIRST AID MEASURES

EYES	Exposure to fumes, vapors or smoke of over heated product can result in irritation to eyes. Direct contact of the molten material will cause eye injury and burns. When handling molten material eye shields must be worn at all times. Should an accident occur, flush eyes with generous amounts of water for at least 15 minutes. Administer prompt first aid measures. <b>Call a physician to attend to the injury.</b>
SKIN	Exposure to fumes, vapors or smoke 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. <b>Call a physician to attend to the injury.</b>
INHALATION	Remove individual to a well ventilated area for fresh air and <b>call a physician if respiratory symptoms warrant medical attention.</b>
INGESTION	Material is not acutely toxic by ingestion. <b>If material is ingested, do not induce vomiting. Call a physician.</b>

### SECTION 5 -- FIRE FIGHTING MEASURES

Flammability YES [ X ] NO [ ]	If yes, under which conditions? Will support a flame above flash point.		
Means of extinction Use water fog, foam, dry chemical or CO <sub>2</sub> extinguisher. Do not use direct water stream.			
Special procedures Use water to keep containers cool.			
<b>FIRE and EXPLOSION DATA</b>			
Flash point (ASTM D92) > 200°C	Upper explosion limit (% by volume) 7.0%	Lower explosion limit (% by volume) 0.9%	
Auto ignition temperature Not Available	TDG flammability classification Not Dangerous	Hazardous combustion products CO <sub>2</sub> , CO (See Section 10)	
Sensitivity to impact Not Applicable	Rate of burning Not Applicable	Explosive power Not Applicable	Sensitivity to static discharge 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	Odor None - intermediate petroleum odor	Physical state Solid @ 25°C	pH 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

### SECTION 10 -- STABILITY AND REACTIVITY

Chemical stability YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If no, which conditions?
Compatibility with other substances YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If NO, which ones? Strong oxidizing agents, eg., peroxides, chlorine
Reactivity, and under what conditions Stable	
Hazardous decomposition products Carbon dioxide, carbon monoxide and other products such as aldehydes and ketones depending on conditions of oxidation.	

### SECTION 11 -- TOXICOLOGICAL INFORMATION

Carcinogenicity Classification		Route of Entry	
IARC : Not listed	ACGIH: Not listed	Skin contact <input checked="" type="checkbox"/>	Inhalation acute <input checked="" type="checkbox"/>
OSHA: Not listed		Skin absorption <input type="checkbox"/>	Inhalation chronic <input checked="" type="checkbox"/>
NTP : Not listed		Eye contact <input type="checkbox"/>	Ingestion <input type="checkbox"/>

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/m <sup>3</sup> 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

FDA status	See product's technical information sheet.
CERCLA reportable quantity	This material is not reportable under 40 CFR Part 302.4.
OSHA hazardous chemicals	None according to 29 CFR 1910.1200.
RCRA	This material is not a RCRA hazardous waste.
SARA status	Sections 311 and 312: Not Applicable Section 313: None
TSCA status	This product, or its ingredients as a mixture, appears on the toxic substances control act inventory.
WHMIS status	This is not a controlled material as defined by the Canadian Hazardous Products Act (Bill C70).
California Proposition 65 list	Carcinogens: None, Adverse reproductive effects: None



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Massachusetts Substance list	None
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  
I. Davie

Signature  
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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<u>PRODUCT NUMBER</u>	<u>CAS NUMBER</u>	<u>PRODUCT NUMBER</u>	<u>CAS NUMBER</u>	<u>PRODUCT NUMBER</u>	<u>CAS NUMBER</u>
5701A	63231-60-7	5799A	63231-60-7	5990A	63231-60-7
5701B	63231-60-7	5799B	63231-60-7	5992A	-----*
5702A	63231-60-7	5799C	63231-60-7	5999A	63231-60-7
5702B	63231-60-7	5801A	63231-60-7		
5703A	63231-60-7	5802A	63231-60-7		
5704A	63231-60-7	5803A	63231-60-7		
5705A	63231-60-7	5803C	-----*		
5706A	63231-60-7	5805A	63231-60-7		
5707A	63231-60-7	5806A	63231-60-7		
5708A	63231-60-7	5806C	63231-60-7		
5709A	63231-60-7	5812A	63231-60-7		
5713A	63231-60-7	5816A	63231-60-7		
5714A	63231-60-7	5816B	63231-60-7		
5714B	63231-60-7	5818A	63231-60-7		
5714T	63231-60-7	5818B	63231-60-7		
5714U	63231-60-7	5818D	63231-60-7		
5715A	63231-60-7	5818E	63231-60-7		
5718A	63231-60-7	5818F	63231-60-7		
5720A	63231-60-7	5818U	63231-60-7		
5721A	63231-60-7	5819A	63231-60-7		
5723A	63231-60-7	5819U	63231-60-7		
5724A	-----*	5821A	63231-60-7		
5725A	63231-60-7	5821F	63231-60-7		
5727A	63231-60-7	5826A	63231-60-7		
5728A	-----*	5850A	63231-60-7		
5733A	63231-60-7	5866A	63231-60-7		
5735A	63231-60-7	5871A	63231-60-7		
5737A	63231-60-7	5871F	63231-60-7		
5738A	63231-60-7	5872A	63231-60-7		
5739A	63231-60-7	5881A	63231-60-7		
5748A	-----*	5884A	63231-60-7		
5749A	63231-60-7	5887A	63231-60-7		
5749B	63231-60-7	5888A	63231-60-7		
5749C	63231-60-7	5888B	63231-60-7		
5749D	63231-60-7	5889A	63231-60-7		
5749E	63231-60-7	5890A	63231-60-7		
5760A	63231-60-7	5896A	63231-60-7		
5760U	63231-60-7	5897A	63231-60-7		
5765A	63231-60-7	5901A	-----*		
5766A	-----*	5905A	-----*		
5767A	-----*	5906A	63231-60-7		
5788A	63231-60-7	5909A	63231-60-7		
5788B	63231-60-7	5909B	63231-60-7		
5788F	63231-60-7	5909F	63231-60-7		
5788U	63231-60-7	5910A	63231-60-7		
5790A	-----*	5913A	63231-60-7		
5790C	-----*	5913F	63231-60-7		
5792A	-----*	5914A	63231-60-7		
5798A	63231-60-7	5981A	63231-60-7		

\*There is no CAS registry number for this product.