



THE INTERNATIONAL GROUP, INC.

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>4700 - 4800 Series Products (Astorlite<sup>®</sup>, Nochek<sup>®</sup>, Parafflex<sup>®</sup>, Synertive<sup>®</sup>)</b>
<b>Other means of identification</b>	
<b>SDS number</b>	4700 - 4800 Series (928749)_Canada_English
<b>Synonyms</b>	See page 8
<b>Recommended use</b>	Various end uses e.g. additional processing, candles, tire and rubber additives, adhesives, food contact coatings etc.
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name</b>	The International Group Inc.
<b>Address</b>	50 Salome Dr. Toronto ON, M1S2A8, CA
<b>Telephone</b>	416-293-4151
<b>Emergency telephone</b>	416-293-4151

## 2. Hazard identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### Label elements

<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.

### Precautionary statements

<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

<b>Inhalation</b>	Solid: No specific first aid measures noted. If fumes from heated product are inhaled: Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell.
<b>Skin contact</b>	Solid: No specific first aid measures noted. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.
<b>Eye contact</b>	Solid: No specific first aid measures noted. Exposure to fumes, vapors or smoke of over heated product can result in irritation of eyes. Direct contact of molten material will cause injury and burns. When handling of molten product eye shield must be worn at all times. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Should an accident occur, flush eyes with generous amounts of water for at least 15 minutes. Administer prompt first aid measures. Get medical attention if irritation develops and persists.

<b>Ingestion</b>	Solid: No specific first aid measures noted. Not acutely toxic by ingestion. If material is ingested, do not induce vomiting. Contact with hot product may cause severe burns. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Eye and skin contact: When heated, contact with molten product can cause injury and burns.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	By heating and fire, irritating vapours/gases may be formed. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved. In the event of fire and/or explosion do not breathe fumes. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Allow material to solidify, and scrape up. Following product recovery, flush area with water.  Small Spills: Where possible allow molten material to solidify naturally. Scrape up.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

## 7. Handling and storage

<b>Precautions for safe handling</b>	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. Do not handle until all safety precautions have been read and understood. Heat only in areas with appropriate exhaust ventilation. Do not breathe fume/mist/vapors. Avoid contact with molten material. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Do not empty into drains. Avoid release to the environment. Wash contaminated clothing before reuse. 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 may be used as a hot liquid for application purposes and requires caution in handling.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS). 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.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Hydrocarbons	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Hydrocarbons	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Hydrocarbons	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value	Form
Hydrocarbons	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Paraffinic hydrocarbons	TWA	2 mg/m <sup>3</sup>	Fume.

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear approved safety goggles. Wear a face shield when working with molten material.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

##### Other

The material may 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.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Slabs, prills, pastilles or granules.
<b>Colour</b>	White to dark amber.
<b>Odour</b>	None.
<b>Odour threshold</b>	No data available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	46 - 125 °C (114.8 - 257 °F)
<b>Initial boiling point and boiling range</b>	> 300 °C (> 572 °F)
<b>Flash point</b>	> 190.0 °C (> 374.0 °F) ASTM D-93
<b>Evaporation rate</b>	< 0.01 (Butyl acetate = 1)
<b>Flammability (solid, gas)</b>	Will support a flame above flash point.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	0.9 % v/v
<b>Explosive limit – upper (%)</b>	7 % v/v
<b>Vapour pressure</b>	< 0.01 mm Hg
<b>Vapour pressure temp.</b>	25 °C (77 °F)
<b>Vapour density</b>	> 5 (Air = 1)
<b>Relative density</b>	0.9 - 0.95 (H <sub>2</sub> O=1)
<b>Relative density temperature</b>	25 °C (77 °F)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	< 0.1 %
<b>Solubility temp. (water)</b>	20 °C (68 °F)
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	No data available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>Partition coefficient (oil/water)</b>	< 0.01
<b>Percent volatile</b>	< 1 % v/v

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use. Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Decomposition of this product can generate carbon dioxide, carbon monoxide and other products such as aldehydes and ketones depending on conditions of oxidation.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Not relevant at normal room temperatures. When heated, irritating vapours may be formed. Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons.
<b>Skin contact</b>	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.

<b>Eye contact</b>	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.
<b>Ingestion</b>	Health injuries are not known or expected under normal use. Contact with hot material can cause thermal burns which may result in permanent damage.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Eye and skin contact: Contact with molten material may cause thermal burns.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Not expected to be acutely toxic.
<b>Skin corrosion/irritation</b>	Not classified. Thermal burn hazard - contact with hot material may cause thermal burns.
<b>Serious eye damage/eye irritation</b>	Not classified. Direct contact of molten product to the eyes will cause thermal burns and eye injury.
<b>Respiratory or skin sensitisation</b>	
<b>Respiratory sensitisation</b>	Not classified.
<b>Skin sensitisation</b>	This product is not expected to cause skin sensitisation.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Solid product: Not likely, due to the form of the product.
<b>Chronic effects</b>	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.
<b>Further information</b>	None.

## 12. Ecological information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Mobility in soil</b>	The product is insoluble in water.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

<b>TDG</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**General information** This product is not regulated as dangerous goods for solid. Shipped hot molten product requires a class 9 "HOT" with statement: Elevated temperature material, liquid, N.O.S. 9, UN3257, III (Polyolefinic blend).

## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Controlled Drugs and Substances Act

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Precursor Control Regulations

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto Protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

**Issue date** 16-August-2015

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**Version No.** 02

**Disclaimer**

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**PRODUCT  
NUMBER****PRODUCT  
NUMBER****PRODUCT  
NUMBER**

4706A	4819A	4892A
4706B	4819B	4895A
4708A	4820A	4899A
4709A	4820B	R-5825A
4713A	4822A	R-5825B
4719A	4824A	R-5847A
4721A	4825A	R-5915A
4723A	4825C	R-6049A
4727A	4825D	R-6059A
4729A	4826A	R-6084A
4731A	4828A	R-6136A
4734A	4829A	R-6171B
4738A	4831A	R-6171C
4738B	4832A	R-6171D
4739A	4833A	R-6209A
4741A	4834A	R-6236A
4741S	4836A	R-6277A
4744A	4837A	R-6307B
4750A	4838A	R-6307C
4752A	4839A	R-6340C
4753A	4841A	R-6345A
4754A	4842A	R-6345B
4756A	4843A	R-6480A
4757A	4844A	R-6584A
4757B	4848A	R-6584B
4758A	4848B	R-6584C
4760A	4848C	R-6584D
4760B	4848D	R-6584E
4761A	4848E	R-6611A
4765A	4849A	R-6613A
4766A	4850A	R-6629A
4766B	4850G	R-6723A
4769A	4852A	R-6723B
4769B	4853A	R-6828A
4773A	4854A	R-6828B
4775A	4854B	R-6940A
4777A	4854C	R-6954A
4783A	4854D	R-6955C
4784A	4854E	R-6973A
4786A	4854H	R-6973B
4786B	4854J	R-6973C
4786D	4854M	R-6973D
4786E	4858A	R-7088A
4787A	4862A	R-7091A
4789A	4864A	R-7156A
4791A	4867A	R-7234A
4793A	4869A	R-7243A
4794A	4870A	
4796A	4872A	
4797A	4874A	
4797B	4875A	
4798A	4876A	
4801A	4877A	
4802A	4877B	
4807A	4878A	
4809A	4879A	
4813A	4880A	
4816A	4881A	
4818A	4882A	
4818B	4891A	