THE INTERNATIONAL GROUP, INC.

SAFETY DATA SHEET

1. Identification

Product identifier **4500 - 4600 Series Products (Astorlite®, Nochek®, Parafflex®)**

Other means of identification

SDS number 4500 - 4600 Series (928741)_Canada_English

Synonyms See page 8

Recommended use Various end uses e.g. additional processing, candles, tire and rubber additives, adhesives, food contact coatings etc.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name The International Group Inc.

Address 50 Salome Dr.
Toronto
ON, M1S2A8, CA

Telephone 416-293-4151

Emergency telephone 416-293-4151

2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal 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

Inhalation Solid: No specific first aid measures noted. If fumes from heated heated product are inhaled: Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact 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.

Eye contact 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.

Ingestion	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.
Most important symptoms/effects, acute and delayed	Eye and skin contact: When heated, contact with molten product can cause injury and burns.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	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

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	By heating and fire, irritating vapours/gases may be formed. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	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.
Specific methods	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.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	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.
Methods and materials for containment and cleaning up	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.
Environmental precautions	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

Precautions for safe handling	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.
Conditions for safe storage, including any incompatibilities	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
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Mineral oil	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

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

Components	Type	Value	Form
Mineral oil	TWA	1 mg/m3	Mist.

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

Components	Type	Value	Form
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Mineral oil	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

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

Physical state Solid.

Form Slabs, prills, pastilles or granules.

Colour White to dark amber.

Odour None.

Odour threshold No data available.

pH	Not applicable.
Melting point/freezing point	46 - 95 °C (114.8 - 203 °F)
Initial boiling point and boiling range	> 300 °C (> 572 °F)
Flash point	> 190.0 °C (> 374.0 °F) ASTM D-93
Evaporation rate	< 0.01 (Butyl acetate = 1)
Flammability (solid, gas)	Will support a flame above flash point.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	0.9 % v/v
Explosive limit – upper (%)	7 % v/v
Vapour pressure	< 0.01 mm Hg
Vapour pressure temp.	25 °C (77 °F)
Vapour density	> 5 (Air = 1)
Relative density	0.9 - 0.94 (H2O=1)
Relative density temperature	25 °C (77 °F)
Solubility(ies)	
Solubility (water)	< 0.1 %
Solubility temp. (water)	20 °C (68 °F)
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Partition coefficient (oil/water)	< 0.01
Percent volatile	< 1 % v/v

10. Stability and reactivity

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

11. Toxicological information

Information on likely routes of exposure

Inhalation	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.
Skin contact	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.
Eye contact	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.
Ingestion	Health injuries are not known or expected under normal use. Contact with hot material can cause thermal burns which may result in permanent damage.

Symptoms related to the physical, chemical and toxicological characteristics Eye and skin contact: Contact with molten material may cause thermal burns.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Mineral oil (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
Aerosol		
LC50	Rat	> 5 mg/l
Oral		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation Not classified. Thermal burn hazard - contact with hot material may cause thermal burns.

Serious eye damage/eye irritation Not classified. Direct contact of molten product to the eyes will cause thermal burns and eye injury.

Respiratory or skin sensitisation

Respiratory sensitisation Not classified.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Mineral oil (CAS Proprietary) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Mineral oil (CAS Proprietary) Not classifiable as a human carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Solid product: Not likely, due to the form of the product.

Chronic effects 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.

Further information None.

12. Ecological information

Ecotoxicity 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.

Components		Species	Test Results
Mineral oil (CAS Proprietary)			
Aquatic			
Acute			
Crustacea	LL50	Invertebrates (Invertebrates)	100 mg/l
Fish	LL50	Fish	10 mg/l

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available on bioaccumulation.

Mobility in soil The product is insoluble in water.

Other adverse effects 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

Disposal instructions	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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	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

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

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 (WAX).

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)	Yes
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

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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

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PRODUCT NUMBER	PRODUCT NUMBER	PRODUCT NUMBER
4507A	4636E	R-6767D
4509A	4638A	R-6767E
4524A	4639A	R-6785A
4525A	4640A	R-6785B
4526A	4641A	R-6787A
4527A	4642A	R-6787B
4528A	4644A	R-6787C
4530A	4645A	R-6787D
4531A	4648A	R-6787E
4532A	4661A	R-6787G
4533A	4665A	R-6787H
4534A	4666A	R-6787S
4537A	4666B	R-6791A
4537B	4670A	R-6815A
4538A	4673A	R-6815C
4539A	4675A	R-6815D
4540A	4679A	R-6828A
4543A	4680A	R-6857A
4543B	4683A	R-6857B
4544A	4684B	R-6868A
4545A	4685A	R-6882A
4546A	4686A	R-6899A
4547A	4686B	R-6901A
4548A	4689A	R-6910A
4548B	4690A	R-6913D
4549A	4691A	R-6913E
4553A	4692A	R-6948A
4567A	4692B	R-6953A
4572A	4695A	R-6972A
4580A	4697A	R-6972B
4602A	R-4921A	R-6972C
4603A	R-5310A	R-6972D
4604A	R-5856A	R-7015B
4605A	R-5903A	R-7015C
4606A	R-6010A	R-7025A
4607A	R-6085A	R-7054A
4608B	R-6085B	R-7064G
4609A	R-6085C	R-7070A
4609F	R-6085D	R-7103A
4610A	R-6090A	R-7144A
4614A	R-6301A	R-7165A
4616A	R-6325A	R-7241A
4619A	R-6351A	R-7241B
4620A	R-6409A	R-7241C
4624A	R-6416A	R-7250A
4625A	R-6416B	R-7278A
4627A	R-6430A	R-7278B
4627B	R-6495B	R-7278C
4628A	R-6523A	R-7278D
4628B	R-6523B	R-7282A
4628C	R-6532A	R-7289B
4629A	R-6542A	R-7295A
4630A	R-6572A	R-7300A
4630B	R-6585B	
4630C	R-6585D	
4633A	R-6604A	
4635A	R-6672B	
4635B	R-6685A	
4636A	R-6721A	
4636C	R-6767C	