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

See page 8 Synonyms

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.

50 Salome Dr. **Address**

Toronto

ON, M1S2A8, CA

416-293-4151 Telephone 416-293-4151 **Emergency telephone**

2. Hazard identification

Physical hazards Not classified. Not classified. Health hazards **Environmental hazards** Not classified.

Label elements

Hazard symbol None. None. Signal word

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

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling

Store away from incompatible materials. **Storage**

Disposal Dispose of waste and residues in accordance with local authority requirements.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

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.

Solid: No specific first aid measures noted. If burned by contact with hot material, cool molten Skin contact

material adhering to skin as quickly as possible with water, and see a physician for removal of

adhering material and treatment of burn.

Solid: No specific first aid measures noted. Exposure to fumes, vapors or smoke of over heated Eye contact

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.

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928741 Version #: 02 Revision date: 14-May-2018 Issue date: 16-August-2015 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 Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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.

water until wer

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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.

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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH T	hreshold l	Limit Value	s
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Components Type Value **Form TWA** Mineral oil 5 mg/m3 Inhalable fraction.

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

Components Value Form Type 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)

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

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

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

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

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

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

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

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

Appropriate engineering

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency

shower must be available when handling this product. controls

Individual protection measures, such as personal protective equipment

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

Skin protection

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

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.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

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.

Slabs, prills, pastilles or granules. **Form**

White to dark amber. Colour

Odour None

Odour threshold No data available.

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Melting point/freezing point 46 - 95 °C (114.8 - 203 °F)

Initial boiling point and boiling

range

Flash point > 190.0 °C (> 374.0 °F) ASTM D-93

> 300 °C (> 572 °F)

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 HgVapour pressure temp. $25 \,^{\circ}\text{C} (77 \,^{\circ}\text{F})$ 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 Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available.

No data available.

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

ReactivityThe 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.

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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.

Test Results Components **Species**

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

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not classified.

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

Not classified. Germ cell mutagenicity

Not classifiable as to carcinogenicity to humans. Carcinogenicity

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 -Not classified.

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure **Aspiration hazard**

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

Exposure to vapors, fumes, or smoke from molten material handled in confined areas can **Chronic effects**

produce irritation of respiratory tracts, and possible physical discomfort to sensitive individuals.

Not classified. Thermal burn hazard - contact with hot material may cause thermal burns.

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

Further information None.

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

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

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

No data available on bioaccumulation. Bioaccumulative potential 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.

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

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 regulationsDispose 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).

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 informationThis 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

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

(PICCS)

Taiwan Chemical Substance Inventory (TCSI) Taiwan Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information

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^{*}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).

PRODUCT NUMBER	PRODUCT NUMBER	PRODUCT NUMBER
4507A	4642A	R-6787B
4509A	4644A	R-6787C
4524A	4645A	R-6787D
4525A	4648A	R-6787E
4526A	4661A	R-6791A
4527A	4665A	R-6815A
4528A	4666A	R-6815C
4530A	4666B	R-6815D
4531A	4670A	R-6828A
4532A	4673A	R-6857A
4533A	4675A	R-6857B
4534A	4679A	R-6868A
4537A	4680A	R-6882A
4537B	4683A	R-6899A
4538A	4684B	R-6901A
4539A	4685A	R-6910A
4540A	4686A	R-6913D
4543A 4544A	4686B 4689A	R-6913E R-6948A
4545A	4690A	R-6953A
4546A	4691A	R-6972A
4547A	4692A	R-6972B
4553A	4692B	R-6972C
4567A	4695A	R-6972D
4572A	4697A	R-7015B
4580A	R-4921A	R-7015C
4602A	R-5310A	R-7025A
4603A	R-5856A	R-7054A
4604A	R-5903A	R-7064G
4605A	R-6010A	R-7070A
4606A	R-6085A	
4607A	R-6085B	
4608B	R-6085C	
4609A	R-6085D	
4610A	R-6090A	
4614A	R-6301A	
4616A	R-6325A	
4619A	R-6351A	
4620A	R-6409A	
4624A	R-6416A R-6416B	
4625A 4627A	R-6430A	
4627B	R-6495B	
4628A	R-6523A	
4628B	R-6523B	
4628C	R-6532A	
4629A	R-6542A	
4630A	R-6572A	
4630B	R-6585B	
4630C	R-6585D	
4633A	R-6604A	
4635A	R-6672B	
4635B	R-6685A	
4636A	R-6721A	
4636C	R-6767C	
4636E	R-6767D	
4638A	R-6767E	
4639A	R-6785A	
4640A	R-6785B	
4641A	R-6787A	1

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