SAFETY DATA SHEET



1. Identification

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

Other means of identification

4500 - 4600 Series (928741)_USA_English SDS number

Synonyms See page 9

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

001-(416)-293-4151 **Telephone** 001-(416)-293-4151

Emergency phone number

001-(800)-561-3509

CHEMTREC (North

America)

001-(800)-424-9300

2. Hazard(s) identification

Physical hazards Not classified. Not classified. **Health hazards OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. None. Signal word

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

Precautionary statement

Observe good industrial hygiene practices. Prevention

Wash hands after handling Response

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Paraffinic Hydrocarbons	Proprietary	≤ 95
Hydrocarbons	Proprietary	≤ 65
Mineral oil	Mixture	≤ 50

The specific chemical identity and/or exact percentage of component(s) have been withheld as a Composition comments

trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

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4. First-aid measures

Inhalation Solid: No specific first aid measures noted. If fumes from heated product are inhaled: Move to

fresh air. Call a POISON CENTER 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

Provide general supportive measures and treat symptomatically.

treatment needed

General information If you feel unwell, seek

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 vapors/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. Use water spray to cool unopened containers. Withdraw immediately in case of rising sound from venting safety device or any discoloration 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 vapor. 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.

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.

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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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value	Form	
Hydrocarbons	PEL	5 mg/m3	Mist.	
Components	Туре	Value	Form	
Mineral oil	PEL	5 mg/m3	Mist.	
US. ACGIH Threshold Limit Valu	es			
Components	Туре	Value	Form	
Hydrocarbons	TWA	5 mg/m3	Inhalable fraction.	
Paraffinic Hydrocarbons	TWA	2 mg/m3	Fume.	
Components	Туре	Value	Form	
Mineral oil	TWA	5 mg/m3	Inhalable fraction.	
US. NIOSH: Pocket Guide to Che	emical Hazards			
Components	Туре	Value	Form	
Hydrocarbons	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Paraffinic Hydrocarbons	TWA	2 mg/m3	Fume.	
Components	Туре	Value	Form	

Biological limit values

Mineral oil

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

STEL

TWA

Appropriate engineering controls

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

10 mg/m3

5 mg/m3

Mist.

Mist.

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

Non-consists the reliable reli

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

Skin protection

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.

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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.

Color White to dark amber.

Odor None.

Odor threshold No data available.
pH Not applicable.

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

Initial boiling point and boiling

range

> 572 °F (> 300 °C)

Flash point > 374.0 °F (> 190.0 °C) 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/vExplosive limit - upper (%) 7 % v/v

Vapor pressure< 0.01 mm HgVapor pressure temp. $77 \,^{\circ}\text{F} \, (25 \,^{\circ}\text{C})$ Vapor density $> 5 \, (\text{Air} = 1)$

Relative density 0.9 - 0.94 (H2O=1)

Relative density temperature 77 °F (25 °C)

Solubility(ies)

Solubility (water) < 0.1 %
Solubility temp. (water) 68 °F (20 °C)

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available.

No data available.

No data available.

Other information

Partition coefficient < 0.01

(oil/water)

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

Hazardous decomposition

reactions

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

Decomposition of this product can generate carbon dioxide, carbon monoxide and other products

occur.

Conditions to avoidAvoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

ncompatible materials Strong oxidizing agents

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 vapors may be formed. Wax

fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons.

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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

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

Not expected to be acutely toxic. **Acute toxicity**

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

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Serious eye damage/eye

Oral

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

irritation

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

Respiratory or skin sensitization

Not classified. Respiratory sensitization

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

Not classified. Germ cell mutagenicity

Not expected to be hazardous by OSHA criteria. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrocarbons (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity Not classified. Specific target organ toxicity -Not classified. single exposure Specific target organ toxicity -Not classified.

repeated exposure

Aspiration hazard

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

Chronic effects Not expected to be hazardous by OSHA criteria. 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.

None. **Further information**

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

LL50 Crustacea Invertebrates (Invertebrates) 100 mg/l

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Fish LL50 Fish 10 mg/l

The product is insoluble in water.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility in soil
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

DOT

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

General information

Not applicable.

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

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Hydrocarbons (CAS Proprietary) Mineral oil (CAS Proprietary)

Paraffinic Hydrocarbons (CAS Proprietary)

US. New Jersey Worker and Community Right-to-Know Act

Hydrocarbons (CAS Proprietary) Mineral oil (CAS Proprietary)

Paraffinic Hydrocarbons (CAS Proprietary)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrocarbons (CAS Proprietary) Mineral oil (CAS Proprietary)

Paraffinic Hydrocarbons (CAS Proprietary)

US. Rhode Island RTK

Hydrocarbons (CAS Proprietary) Mineral oil (CAS Proprietary)

Paraffinic Hydrocarbons (CAS Proprietary)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Hydrocarbons (CAS Proprietary) Foots oil (CAS Proprietary)

Mineral oil (CAS Proprietary) Slack wax, Petroleum (CAS Proprietary)

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
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).

16. Other information, including date of preparation or last revision

Issue date 16-August-2015 **Revision date** 11-April-2018

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Flammability: 1 Physical hazard: 0

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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

NFPA ratings



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PRODUCT NUMBER	PRODUCT NUMBER	PRODUCT NUMBER
4507A	4645A	R-6787D
4509A	4648A	R-6791A
4524A	4661A	R-6815A
4525A	4665A	R-6815C
4526A	4666A	R-6815D
4527A	4666B	R-6828A
4528A	4670A	R-6857A
4530A	4673A	R-6857B
4531A	4675A	R-6868A
4532A	4679A	R-6882A
4533A	4680A	R-6899A
4534A	4683A	R-6901A
4537A	4684B	R-6910A
4537B	4685A	R-6948A
4538A 4539A	4686A	R-6953A
4540A	4686B 4689A	
4543A	4690A	
4544A	4691A	
4545A	4692A	
4553A	4692B	
4567A	4695A	
4572A	4697A	
4580A	R-4921A	
4602A	R-5310A	
4603A	R-5856A	
4604A	R-5903A	
4605A	R-6010A	
4606A	R-6085A	
4607A	R-6085B	
4608B	R-6085C	
4609A	R-6085D	
4610A	R-6090A	
4614A	R-6301A	
4616A	R-6325A	
4619A 4620A	R-6351A R-6409A	
4624A	R-6416A	
4625A	R-6416B	
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 4640A	R-6785A R-6785B	
4641A	R-6787A	
4642A	R-6787B	
4644A	R-6787C	
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