SAFETY DATA SHEET

THE INTERNATIONAL GROUP, INC.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance	**8500 - 8800 Series Products (Astorstat®)**
Identification number	649-254-00-X (Index number)
Registration number	01-2119462827-27-0210
Synonyms	See page 9
SDS number	8500 - 8800 Series (921277)_Europe_English
Issue date	24-March-2015
Version number	02
Revision date	20-April-2015
Supersedes date	24-March-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Various end uses e.g. pharmaceutical excipient, personal care/cosmetics, food contact coatings, additive for wax blends, use in adhesives etc.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company name	The International Group Inc.
Address	50 Salome Dr. Toronto ON, M1S2A8, CA
Telephone	001-(416)-293-4151
E-mail	-
Contact person	-

1.4. Emergency telephone number	001-(416)-293-4151
	001-(800)-561-3509
CHEMTREC (North America)	001-(800)-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC and its amendments but meets the criteria for classification according to Regulation (EC) 1272/2008 (CLP Regulation) and its amendments.

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	None known.
Main symptoms	Eye and skin contact: Contact with molten material may cause thermal burns.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	Polyethylene Wax
Hazard pictograms	None.
Signal word	None.
Hazard statements	The product 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.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Polyethylene Wax	100	9002-88-4 232-373-2	01-2119462827-27-0210	649-254-00-X	
Classification: **DSD:** -					
CLP: -					

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

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed Eye and skin contact: When heated, contact with molten product can cause injury and burns.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards May form combustible dust concentrations in air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water on molten material: Explosion hazard could result.

5.2. Special hazards arising from the substance or mixture By heating and fire, irritating vapours/gases may be formed. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures 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. Do not direct water at source of leak or safety devices as icing may occur. 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. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8.

For emergency responders Wear appropriate protective equipment and clothing during clean-up.

6.2. 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.

6.3. Methods and material 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, regional and national laws.

Large Spills: Stop leak if you can do so without risk. Use water spray to reduce vapours or divert vapour cloud drift. Isolate area until gas has dispersed. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Allow material to solidify, and scrape up. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Where possible allow molten material to solidify naturally.

Never return spills to original containers for re-use.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

7.3. Specific end use(s) 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

8.1. Control parameters

Occupational exposure limits

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Material	Type	Value	Form
Polyethylene Wax (CAS 9002-88-4)	TWA	10 mg/m3	Dust.

Czech Republic. OELs. Government Decree 361

Material	Type	Value	Form
Polyethylene Wax (CAS 9002-88-4)	TWA	5 mg/m3	Dust.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Material	Type	Value	Form
Polyethylene Wax (CAS 9002-88-4)	TWA	5 mg/m3	Dust.

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Material	Type	Value
Polyethylene Wax (CAS 9002-88-4)	TWA	10 mg/m3

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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

General information Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. 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.

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 Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

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.

Hygiene measures 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. 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.

Environmental exposure controls Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Slabs, prills, pastilles or granules

Colour White.

Odour None.

Odour threshold No data available.

pH Not applicable.

Melting point/freezing point 67 - 121 °C (152,6 - 249,8 °F)

Initial boiling point and boiling range > 300 °C (> 572 °F)

Flash point > 150,0 °C (> 302,0 °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

Flammability limit - lower (%) No data available.

Flammability limit - upper (%)	No data available.
Vapour pressure	< 0,01 mm Hg (77 °F/25 °C)
Vapour density	> 5 (Air = 1)
Relative density	0,92 - 0,96 (77 °F/25 °C)
Solubility(ies)	< 0,1 % (68 °F/20 °C)
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2. Other information

Partition coefficient (oil/water)	< 0,01
Percent volatile	Negligible.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. 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.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

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	Eye and skin contact: Contact with molten material may cause thermal burns.

11.1. Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	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 sensitisation	Not classified.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not expected to cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Polyethylene Wax (CAS 9002-88-4) 3 Not classifiable as to carcinogenicity to humans.

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.
Mixture versus substance information	No information available.
Other information	None.

SECTION 12: Ecological information

12.1. Toxicity	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.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 16 03 06
Disposal methods/information	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.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. 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).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
TWA: Time weighted average.
STEL: Short term exposure limit.
DOT: Department of Transportation.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
OSHA: Occupational Safety and Health Administration.
CAS: Chemical Abstracts Service.
WHMIS: Workplace Hazardous Materials Information System.
HMIS: Hazardous Materials Identification System.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.

References	ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices IARC Monographs. Overall Evaluation of Carcinogenicity HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS)
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15	None.
Training information	Follow training instructions when handling this material.
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.

PRODUCT NUMBER	PRODUCT NUMBER	PRODUCT NUMBER	PRODUCT NUMBER
8501A	8540A	8603B	8676E
8502A	8540B	8603C	8676F
8504A	8540C	8604A	8677A
8505A	8541A	8605A	8680A
8505B	8541B	8607A	8688A
8505C	8542A	8607B	8690A
8505D	8542B	8612A	8691A
8507A	8542C	8613A	8692A
8507B	8543A	8614A	8693A
8507C	8544A	8615A	8695A
8508A	8550A	8616A	8697A
8508B	8551A	8617A	8702A
8509A	8552A	8618A	8703A
8510A	8552B	8622A	8704A
8510B	8552C	8623A	8704B
8510C	8552D	8624A	8705A
8510D	8553A	8625A	8705B
8511A	8553B	8626A	8706A
8512A	8553C	8626B	8706B
8513A	8554A	8627A	8707A
8513B	8554B	8628A	8708A
8514A	8554C	8629A	8711A
8514B	8555A	8630A	8713A
8515A	8557A	8630B	8728A
8516A	8558A	8630C	8729A
8516B	8559A	8631A	8731A
8516C	8560A	8647A	8733A
8517A	8561A	8647B	8734A
8518A	8561B	8648A	8735A
8519A	8561C	8649A	8738A
8519B	8562A	8650A	8738B
8520A	8563A	8650B	8741B
8520B	8563B	8651A	8743A
8520C	8563C	8651B	8743B
8522A	8564A	8652A	8744A
8522B	8567A	8652C	8745A
8522C	8568A	8653A	8745B
8522D	8569A	8654A	8747A
8523A	8570A	8655A	8748A
8523B	8571A	8655B	8758A
8525A	8573A	8655C	8760A
8526A	8574A	8660A	8761A
8526B	8575B	8661B	8762A
8527A	8577A	8665A	8763A
8529A	8578A	8666A	R-6134A
8529B	8579A	8667A	R-6147A
8530A	8582A	8667B	R-6199A
8531A	8586A	8668A	R-6217A
8532A	8587A	8668B	R-6217B
8533A	8589A	8668C	R-6349A
8534A	8589B	8669A	R-6376A
8535A	8590A	8669B	R-6401A
8535B	8591A	8670A	R-6484A
8535C	8592A	8671A	
8536A	8593A	8671B	
8536B	8594A	8674A	
8536C	8595A	8676A	
8537A	8596A	8676B	
8538A	8597A	8676C	
8539A	8603A	8676D	