SAFETY DATA SHEET



1. Identification

Product identifier 8500 - 8800 Series Products (Astorstat®)

Other means of identification

SDS number 8500 - 8800 Series (921277)_USA_English

CAS number 9002-88-4
Synonyms See page 8

Recommended useVarious end uses e.g. pharmaceutical excipient, personal care/cosmetics, food contact coatings,

additive for wax blends, use in adhesives 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 +1 416-293-4151
Emergency phone number +1 416-293-4151
+1 800 561 3500

+1 800-561-3509

CHEMTREC (North

America)

+1 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.
Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open

flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and

receiving equipment. Observe good industrial hygiene practices.

Response Take off contaminated clothing and wash before reuse. In case of fire: Use water fog, foam, dry

chemical powder, carbon dioxide to extinguish.

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

Substances

Chemical name	Common name and synonyms	CAS number	%
Polyethylene		9002-88-4	100

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

8500 - 8800 Series SDS US
921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 1 / 8

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. Dust

may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

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.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the

formation of a potentially explosible dust-air mixture.

Unsuitable extinguishing media

General information

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Explosion hazard: 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. By heating and fire, irritating vapors/gases 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

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not breathe mist/vapors/dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For personal protection, see section 8 of the SDS.

8500 - 8800 Series SDS US
921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 2 / 8

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

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 molten material to cool and solidify before disposal. 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.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. 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-3 (29 CFR 1910.1000)

Material	Туре	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
ological limit values	No biological exposure limits noted for	the ingredient(s).	

Biological limit values

Appropriate engineering

controls

Ensure adequate ventilation, especially in confined areas. Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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.

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.

8500 - 8800 Series SDS US 921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 3/8

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

Solid. Physical state

Form Slabs, prills, pastilles or granules.

White. Color None. Odor

Odor threshold No data available. Not applicable. pН

Melting point/freezing point 152.6 - 249.8 °F (67 - 121 °C)

Initial boiling point and boiling

range

> 572 °F (> 300 °C)

> 302.0 °F (> 150.0 °C) ASTM D-93 Flash point

< 0.01 (Butyl acetate = 1) **Evaporation rate**

Will support a flame above flash point. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) No data available. Explosive limit - upper (%) No data available. Vapor pressure < 0.01 mm Hg 77 °F (25 °C) Vapor pressure temp. Vapor density > 5 (Air = 1)

0.92 - 0.96 (H2O=1) Relative density

Relative density temperature 77 °F (25 °C)

Solubility(ies)

< 0.1 % Solubility (water) 68 °F (20 °C) Solubility temp. (water) No data available. Partition coefficient

(n-octanol/water)

No data available. **Auto-ignition temperature Decomposition temperature** No data available. No data available. **Viscosity**

Other information

Partition coefficient < 0.01

(oil/water)

Percent volatile Negligible.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

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

occur.

Conditions to avoid Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

8500 - 8800 Series SDS US 921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 4/8 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 vapors may be formed. Wax

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

Health injuries are not known or expected under normal use. Molten material will produce thermal Skin contact

burns.

Health injuries are not known or expected under normal use. Molten material will produce thermal Eye contact

Health injuries are not known or expected under normal use. Contact with hot material can cause Ingestion

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. Dust may irritate

the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

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

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 sensitization

Respiratory sensitization Not classified.

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

Polyethylene (CAS 9002-88-4) 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.

Not classified. Reproductive toxicity Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

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

Not expected to be hazardous by OSHA criteria. Exposure to vapors, fumes, or smoke from Chronic effects

molten material handled in confined areas can produce irritation of respiratory tracts, and possible

physical discomfort to sensitive individuals. Prolonged inhalation of dust may be harmful.

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.

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.

8500 - 8800 Series SDS US 921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 5/8 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 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).

Not applicable.

15. Regulatory information

US federal regulations

This product is 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)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard categories

Combustible dust

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

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

Not listed

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

Not listed.

8500 - 8800 Series SDS US
921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 6 / 8

US. Rhode Island RTK

Polyethylene (CAS 9002-88-4)

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.

International Inventories

Country(s) or region

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)	Yes
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

On inventory (yes/no)*

Yes

Toxic Substances Control Act (TSCA) Inventory

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

Inventory name

Issue date24-March-2015Revision date10-April-2018

Version # 03

United States & Puerto Rico

HMIS® ratings Health: 0

Flammability: 2 Physical hazard: 0

NFPA ratings



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8500 - 8800 Series SDS US
921277 Version #: 03 Revision date: 10-April-2018 Issue date: 24-March-2015 7 / 8

^{*}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).

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8500 - 8800 Series SDS US 921277 Revision date: 10-April-2018 Issue date: 24-March-2015