



THE INTERNATIONAL GROUP, INC.

SAFETY DATA SHEET

Version #: 04

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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	618-339-3 (EC number)
Registration number	01-2119462827-27-0210
Synonyms	See page 11
SDS number	8500 - 8800 Series (921277)_Europe_English

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

Manufacturer	The International Group Inc.
Address	50 Salome Dr Toronto, Ontario, M1S 2A8 Canada
Telephone	+1-(416)-293-4151
Only Representative	INTERTEK FRANCE
Address	Allée de la Fosse Moret Eco parc 2 27400 Heudebouville France
Telephone	+33 2 79 23 03 49
E-mail	if.reach@intertek.com

1.4. Emergency telephone number	+1-(416)-293-4151 +1-(800)-561-3509
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

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

Hazard pictograms	None.
Signal word	None.
Hazard statements	The substance 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 information on the label	None.
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2.3. Other hazards

May form explosible dust-air mixture if dispersed.

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. The substance is not included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties.

The substance is not considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polyethylene	100	9002-88-4 618-339-3	01-2119462827-27-0210	-	

Classification: -

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 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. Dust may irritate the respiratory tract, skin and eyes.

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). 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

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

5.2. Special hazards arising from the substance or mixture

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 vapours/gases may be formed. During fire, hazardous combustion products are released that may include: Carbon oxides. Aldehydes. Ketones.

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. 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. In the event of fire and/or explosion do not breathe fumes. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Wear appropriate personal protective equipment.

For emergency responders Keep unnecessary personnel away. Do not breathe fume/vapours/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. 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

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, regional and national 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.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimise 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.

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)

Various end uses e.g. pharmaceutical excipient, personal care/cosmetics, food contact coatings, additive for wax blends, use in adhesives etc. Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List Material

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	MAK	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
		10 mg/m ³	Respirable fraction.

Belgium. Exposure Limit Values Material

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	3 mg/m ³	Respirable fraction.

Belgium. Exposure Limit Values

Material	Type	Value	Form
		10 mg/m ³	Inhalable fraction.

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

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	10 mg/m ³	Dust.

Czech Republic. OELs. Government Decree 361

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	5 mg/m ³	Dust.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	VME	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Regulatory status:	Regulatory binding (VRC)		
Regulatory status:	Regulatory binding (VRC)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	4 mg/m ³	Inhalable dust.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.

Ireland. Occupational Exposure Limits

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.

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

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	5 mg/m ³	Dust.

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

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	10 mg/m ³	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	3 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value	Form
Polyethylene (CAS 9002-88-4)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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. Provide easy access to water supply and eye wash facilities.

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.

Eye/face protection Wear approved safety goggles. Wear a face shield when working with molten material. Eye protection should meet standard EN 166.

Skin protection

- Hand protection Wear suitable gloves tested to EN374. 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. Respiratory protection should meet standard EN 14387.

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.

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**

Physical state	Solid.
Form	Slabs, prills, pastilles or granules.
Colour	White.
Odour	None.
Odour threshold	Not applicable.
Melting point/freezing point	>= 67 - <= 121 °C (>= 152,6 - <= 249,8 °F)
Boiling point or initial boiling point and boiling range	> 300 °C (> 572 °F)
Flammability	Will support a flame above flash point. Fine particles may form explosive mixtures with air.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Property has not been measured.

Explosive limit – upper (%) Property has not been measured.

Flash point > 150 °C (> 302 °F) (ASTM D-93)

Auto-ignition temperature Property has not been measured.

Decomposition temperature Property has not been measured.

pH Not applicable (material is insoluble in water).

Kinematic viscosity Not applicable (the material is a solid).

Solubility

Solubility (water) < 0,1 % (20 °C (68 °F))

Partition coefficient (n-octanol/water) (log value) Not applicable (material is insoluble in water).

Vapour pressure < 0,01 mm Hg (25 °C (77 °F))

Density and/or relative density

Relative density $\geq 0,92$ - $\leq 0,96$ (Water=1) (25 °C (77 °F))

Vapour density > 5 (Air=1)

Particle characteristics

Particle size 0,8 mm (granular form) median

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate < 0,01 (Butyl acetate = 1)

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. Hazardous polymerisation does not occur.

10.4. Conditions to avoid Keep away from heat, sparks and open flame. Minimise dust generation and accumulation. 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 aldehydes 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. Dusts or powder may irritate the respiratory tract, skin and eyes.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Thermal burn hazard - contact with hot material may cause thermal burns.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Direct contact of molten product to the eyes will cause thermal burns and eye injury.

Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not likely, due to the form of the product.
Mixture versus substance information	The product is a substance.

11.2. Information on other hazards

Endocrine disrupting properties	This substance does not have endocrine disrupting properties with respect to human health, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605.
Other information	Exposure to vapors, fumes, or smoke from molten material handled in confined areas can produce irritation of the respiratory tract, and possible physical discomfort to sensitive individuals.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	No data is available on the degradability of this substance.
12.3. Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient n-octanol/water (log Kow)	Not applicable (material is insoluble in water).
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	The product is insoluble in water. Expected to have low mobility in soil.
12.5. Results of PBT and vPvB assessment	This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.
12.6. Endocrine disrupting properties	This substance does not have endocrine disrupting properties with respect to the environment, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605.
12.7. Other adverse effects	No data available for this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose 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.
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

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.
Tunnel restriction code	Not assigned.

- 14.4. Packing group Not assigned.
- 14.5. Environmental hazards No.
- 14.6. Special precautions Not assigned.

RID

- 14.1. UN number Not regulated as dangerous goods.
- 14.2. UN proper shipping name Not regulated as dangerous goods.
- 14.3. Transport hazard class(es)
 - Class Not assigned.
 - Subsidiary risk -
- 14.4. Packing group Not assigned.
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Not assigned.

ADN

- 14.1. UN number Not regulated as dangerous goods.
- 14.2. UN proper shipping name Not regulated as dangerous goods.
- 14.3. Transport hazard class(es)
 - Class Not assigned.
 - Subsidiary risk -
- 14.4. Packing group Not assigned.
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Not assigned.

IATA

- 14.1. UN number Not regulated as dangerous goods.
- 14.2. UN proper shipping name Not regulated as dangerous goods.
- 14.3. Transport hazard class(es)
 - Class Not assigned.
 - Subsidiary risk -
- 14.4. Packing group Not assigned.
- 14.5. Environmental hazards No.
- 14.6. Special precautions for user Not assigned.

IMDG

- 14.1. UN number Not regulated as dangerous goods.
- 14.2. UN proper shipping name Not regulated as dangerous goods.
- 14.3. Transport hazard class(es)
 - Class Not assigned.
 - Subsidiary risk -
- 14.4. Packing group Not assigned.
- 14.5. Environmental hazards
 - Marine pollutant No.
 - EmS Not assigned.
- 14.6. Special precautions for user Not assigned.
- 14.7. Maritime transport in bulk according to IMO instruments 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 (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 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.

Other EU regulations

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

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
TWA: Time Weighted Average.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
ECHA: European Chemical Agency.
EPA: AQUIRE database
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
NLM: Hazardous Substances Data Base

Information on evaluation method leading to the classification of mixture

Not applicable. The product is a substance.

Full text of any statements, which are not written out in full 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	PRODUCT NUMBER
8501A	8538A	8597A	8676B	R-6217B
8502A	8539A	8603A	8676C	R-6349A
8504A	8540A	8603B	8676D	R-6376A
8505A	8540B	8603C	8676E	R-6401A
8505B	8540C	8604A	8676F	R-6420A
8505C	8541A	8605A	8677A	R-6484A
8505D	8541B	8607A	8680A	R-6508A
8507A	8542A	8607B	8688A	R-6596A
8507B	8542B	8612A	8690A	R-6669A
8507C	8542C	8613A	8691A	R-6796A
8508A	8543A	8614A	8692A	R-6833A
8508B	8544A	8615A	8693A	R-6838A
8509A	8550A	8616A	8695A	R-6864A
8510A	8551A	8617A	8697A	R-6969A
8510B	8552A	8618A	8702A	R-7123A
8510C	8552B	8622A	8703A	R-7134A
8510D	8552C	8623A	8704A	
8511A	8552D	8624A	8704B	
8512A	8553A	8625A	8705A	
8513A	8553B	8626A	8705B	
8513B	8553C	8626B	8706A	
8514A	8554A	8627A	8706B	
8514B	8554B	8628A	8707A	
8515A	8554C	8629A	8708A	
8516A	8555A	8630A	8711A	
8516B	8557A	8630B	8713A	
8516C	8558A	8630C	8720A	
8517A	8559A	8631A	8728A	
8518A	8560A	8647A	8729A	
8519A	8561A	8647B	8731A	
8519B	8561B	8648A	8733A	
8520A	8561C	8649A	8734A	
8520B	8562A	8650A	8735A	
8520C	8563A	8650B	8738A	
8520D	8563B	8651A	8738B	
8522A	8563C	8651B	8741B	
8522B	8564A	8652A	8743A	
8522C	8567A	8652C	8743B	
8522D	8568A	8653A	8744A	
8523A	8569A	8654A	8745A	
8523B	8570A	8655A	8745B	
8525A	8571A	8655B	8747A	
8526A	8573A	8655C	8748A	
8526B	8574A	8655D	8758A	
8527A	8575B	8660A	8760A	
8529A	8577A	8661B	8761A	
8529B	8578A	8665A	8762A	
8530A	8579A	8666A	8763A	
8531A	8582A	8667A	8764A	
8532A	8586A	8667B	8765A	
8533A	8587A	8668A	8766A	
8534A	8589A	8668B	8777A	
8535A	8589B	8668C	8779A	
8535B	8590A	8669A	8783A	
8535C	8591A	8669B	8785A	
8536A	8592A	8670A	R-6134A	
8536B	8593A	8671A	R-6147A	
8536C	8594A	8671B	R-6164A	
8536D	8595A	8674A	R-6199A	
8537A	8596A	8676A	R-6217A	