SAFETY DATA SHEET



1. Identification

Product identifier 5000 Series products (MICROSERE)

Other means of identification

SDS number 5000 Series

Recommended use Various 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 001-(416)-293-4151

E-mail -Contact person -

Emergency phone number 001-(416)-293-4151

001-(800)-561-3509

CHEMTREC (North

Amerca)

001-(800)-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

This product does not meet the criteria for classification according to OSHA Hazard Communication Standard (OSHA GHS).

Label elements

Hazard symbol None.
Signal word None.

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

Precautionary statement

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.

Hazard(s) not otherwise

classified (HNOC)

None known.

3. Composition/information on ingredients

Substances

Chemical name	Common name and	CAS number	%
	synonyms		
Microcrystalline wax		63231-60-7	100

Composition comments 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 treatment needed

Provide general supportive measures and treat symptomatically.

General information

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Do not use water on molten metal: Explosion hazard could result.

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. Do not direct water at source of leak or safety devices as icing may occur. 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

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

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 No exposure limits noted for ingredient(s).

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

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

shower must be available when handling this product. controls Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves. 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.

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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. 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. Soft solid. Form

Color White to dark amber.

None to slight petroleum odor. Odor

Odor threshold No data available. pH Not applicable.

140 - 203 °F (60 - 95 °C) Melting point/freezing point Initial boiling point and boiling

range

> 572 °F (> 300 °C)

> 392.0 °F (> 200.0 °C) ASTM D-92 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

Flammability limit - lower No data available.

(%)

Flammability limit - upper

No data available.

Explosive limit - lower (%) 0.9 %

7 % Explosive limit - upper (%)

< 0.01 mm Hg (77 °F/25 °C) Vapor pressure

Vapor density > 5 (Air = 1)

0.91 - 0.94 (77 °F/25 °C) Relative density

Solubility(ies)

< 0.1 % (68 °F/20 °C) Solubility (water) No data available. Auto-ignition temperature **Decomposition temperature** No data available. No data available. Viscosity

Other information

Partition coefficient

(oil/water)

< 0.01

Percent volatile Negligible.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

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

reactions

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Conditions to avoid

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

such as aldehyldes and ketones depending on conditions of oxidation.

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

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.

Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

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 or skin sensitization

Respiratory sensitization Not classified.

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

Not classified. Germ cell mutagenicity

Carcinogenicity Not expected to be hazardous by OSHA criteria.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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. Aspiration of large amounts of liquid

material is reported to cause lipid pneumonia.

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. In rats, chronic ingestion of paraffins has shown accumulation in target organs (liver, spleen) with associated nonspecific immune response.

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. No data available.

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

to Not applicable.

the IBC Code

General information

This product is not regulated as dangerous goods for solid and molten product shipped under 212

°F/100 °C. Hot molten product shipped over 212 °F/100 °C 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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

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

Not regulated.

Safe Drinking Water Act

Not regulated.

Inventory name

(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.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Country(s) or region

International Inventories

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)	Yes
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

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date11-March-2015Revision date20-April-2015

Version # 02
HMIS® ratings Health: 0

United States & Puerto Rico

Flammability: 1 Physical hazard: 0

5000 Series products (MICROSERE)

921278 Version #: 02 Revision date: 20-April-2015 Issue date: 11-March-2015 6 / 7

Yes

On inventory (yes/no)*

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).

List of abbreviations

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. NFPA: National Fire Protection Association.

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.

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)

Disclaimer

References

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5000 Series products (MICROSERE)



SDS 5000 SERIES AND RELATED PRODUCTS

CAS #: 63231-60-7 >99%

PRODUCT CODE:

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5707A	5788B	5889A				
5708A	5788F	5890A				
5709A	5788U	5896A				
5713A	5798A	5897A	3 4			
5714A	5799A	5906A				
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5714C	5799C	5909A		8	384	
5714D	5801A	5909B		<u>.</u>		
5714T	5802A	5909F				
5714U	5803A	5910A				
5715A	5805A	5910B				
5715B	5806A	5913A				
5715C	5806C	5913F				
5718A	5812A	5914A				
5720A	5816A	5981A				
5721A	5816B	5981W				
5723A	5818A	5990A		\$		
5725A	5818B	5999A				
5727A	5818D	4820B				
5729A	5818E	4843A				
5730A	5818F					
5731A	5818U					39-
5732A	5819A					
5733A	5819U					
5735A	5821A					
5737A	5821F					
5738A	5826A					
5739A	5827A					
5740A	5829A					
5741A	5850A					