NICHINO AMERICA, INC.

SAFETY DATA SHEET

Strada® Herbicide

Section 1. Identification

GHS product identifier

: Strada® Herbicide

Other means of

: Active ingredient:

identification

Common name: Orthosulfamuron

Chemical Name: Benzamide, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]

sulfonyl]amino]-N,N-dimethyl-

Product code

: EPA Registration Number: 71711-44

Product use

: Herbicide.

Water dispersible granule.

Supplier's details

: Nichino America Inc

4550 Linden Hill Road, Suite 501

Wilmington, DE 19808

United States

Telephone number: 302-636-9001

e-mail address of person

responsible for this SDS

: Not available.

Emergency telephone number (with hours of

: In case of fire fire or spill: (800) 424-9300 (24 hours per day) For international shipments: (703) 527-3887 (24 hours per day)

operation)

For emergency health and safety inquiries: (800) 348-5832 (24 hours per day)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 1A

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: May cause cancer.

Precautionary statements

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection.

Response

: IF exposed or concerned: Get medical advice or attention.

Storage

: Store locked up.

international regulations.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

Hazards not otherwise

classified

: None known.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Active ingredient:

Common name: Orthosulfamuron

Chemical Name: Benzamide, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]

sulfonyl]amino]-N,N-dimethyl-

Product code : EPA Registration Number: 71711-44

Ingredient name	%	CAS number
Orthosulfamuron	50	213464-77-8
Kaolin	15 - 40	1332-58-7
Kieselguhr	7 - 13	61790-53-2
sodium diisopropylnaphthalenesulphonate	1 - 5	1322-93-6
crystalline silica, respirable powder	0.1 - 1	14808-60-7
The specific chemical identity and/or percentage of composition is being withheld as a trade secret		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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Section 4. First aid measures

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.

: Do not use water jet.

Unsuitable extinguishing media

Specific hazards arising

from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark : Non-flammable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

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Section 6. Accidental release measures

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Kaolin	ACGIH TLV (United States, 1/2021). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Kieselguhr	CAL OSHA PEL (United States, 5/2018). TWA: 3 mg/m³ 8 hours. Form: respirable fraction TWA: 6 mg/m³ 8 hours. Form: total dust OSHA PEL Z3 (United States, 6/2016).

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Section 8. Exposure controls/personal protection

TWA: 20 mppcf 8 hours. TWA: 80 mg/m³ / (%SiO2) 8 hours.

crystalline silica, respirable powder

OSHA PEL Z3 (United States, 6/2016).

TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable

TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form:

Respirable

OSHA PEL (United States, 5/2018).

TWA: 50 µg/m³ 8 hours. Form: Respirable

ACGIH TLV (United States, 3/2018).

TWA: 0.025 mg/m³ 8 hours. Form:

Respirable fraction

NIOSH REL (United States, 10/2016).

TWA: 0.05 mg/m³ 10 hours. Form: respirable

dust

Biological exposure indices

None known.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection **Skin protection**

: No special measures are required.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommended: Wear waterproof gloves.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

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SECTION 9: Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. Color : Gray.

Odor : Practically Odorless

: Not available. **Odor threshold**

Ha : 6.86 [Conc. (% w/w): 1%]

Melting point/freezing point **Boiling point, initial boiling** point, and boiling range

: Not available. : Not available.

Flash point : Not applicable. **Flammability** : Non-flammable. Lower and upper explosion : Not applicable.

limit/flammability limit Vapor pressure

: Not available. Relative vapor density : Not applicable. Relative density : Not available. **Density** : 0.65 g/mL

Solubility in water Partition coefficient: n-

octanol/water

: Not available. : Not applicable.

Auto-ignition temperature : 395°C (743°F) **Decomposition temperature** : Not available. **Viscosity** : Not applicable. **Explosive properties** : Not available.

Oxidizing properties **Particle characteristics**

Median particle size

: Not available.

: Not available.

Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : Keep away from heat, sparks, flame and humidity.

Incompatible materials : No specific data.

Hazardous decomposition products

: Hazardous decomposition products (In case of fire):

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Strada® Herbicide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Strada® Herbicide	Eyes - Non-irritating to the eyes.	Rabbit	-	-	-
	Skin - Non-irritating to the skin.	Rabbit	-	_	-

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.Eyes : Based on available data, the classification criteria are not met.

Respiratory: Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Strada® Herbicide	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin: Based on available data, the classification criteria are not met.

Respiratory : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Orthosulfamuron	In vitro Mammalian Cell Gene Mutation Test Bacterial Reverse	Experiment: In vitro Subject: Mammalian-Animal Subject: Bacteria	Negative Negative
	Mutation Test Micronucleus-test	Subject: Mammalian-Animal	Negative

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary: May cause cancer.

Classification

Product/ingredient name	OSHA	IARC	NTP
Kieselguhr	-	3	-
crystalline silica, respirable powder	-	1	Known to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Not available

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Inhalation, Eyes.

Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: No known significant effects or critical hazards.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Strada® Herbicide	Acute EC50 3.4 mg/l Fresh water	Algae - Anabaena flos-aquae	72 hours
	Acute EC50 >108 mg/l Fresh water	Algae - Navicula pelliculosa	72 hours
	Acute EC50 7 mg/l Fresh water	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 23 mg/l	Algae - Skeletonema costatum	72 hours
	Acute EC50 >124 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >133 mg/l	Fish - Lepomis macrochirus	96 hours

Conclusion/Summary : Not determined.

Persistence and degradability

Conclusion/Summary: Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not determined.	Not determined.	Not determined.	UN3077	UN3077
UN proper shipping name	-	-	-	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Orthosulfamuron)	Environmentally hazardous substance, solid, n.o.s. (Orthosulfamuron)
Transport hazard class(es)	-	-	-	-	9	9

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Section 14. Transport information

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Label						
					*2	***
Packing group	-	-	-	-	Ш	III
Environmental hazards	No.	-	-	-	Marine Pollutant: Yes	Yes.

Additional information

IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Emergency schedules F-A, S-F

Special provisions 274, 335, 966, 967, 969

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Quantity limitation Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956.

Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y956.

Special provisions A97, A158, A179, A197

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not applicable. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations

: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of nonpesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

EPA Registration Number: 71711-44

Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation.

Avoid contact with skin, eyes, or clothing. Avoid breathing spray.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

Clean Air Act Section 602

: Not listed

Class I Substances

: Not listed

Class II Substances

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Section 15. Regulatory information

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : CARCINOGENICITY - Category 1A

Composition/information on ingredients

Name	%	Classification
sodium diisopropylnaphthalenesulphonate	1 - 5	SERIOUS EYE DAMAGE - Category 1
crystalline silica, respirable powder	0.1 - 1	CARCINOGENICITY - Category 1A

State regulations

Massachusetts : The following components are listed: KAOLIN DUST; PRECIPITATED SILICA; Silica,

precipitated

New York : None of the components are listed.

: The following components are listed: KAOLIN; SILICA, AMORPHOUS **New Jersey**

DIATOMACEOUS EARTH; SILICA, AMORPHOUS, PRECIPITATE & GEL

Pennsylvania : The following components are listed: KAOLIN; PRECIPITATED SILICA

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Silica, crystalline and Butylated hydroxyanisole, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Silica, crystalline Butylated hydroxyanisole	- Yes.	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : All components are active or exempted. This product is a registered pesticide.

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Section 16. Other information

Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 1A	Calculation method

History

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Key to abbreviations : ADR = The European Agreement concerning the International Carriage of Dangerous

Goods by Road

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

RID = The Regulations concerning the International Carriage of Dangerous Goods by

Rail

SGG = Segregation Group

TDG = Transportation of Dangerous Goods

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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