# SAFETY DATA SHEET



Grindex 10

### **Section 1. Identification**

**GHS** product identifier : Grindex 10 **Article No.** : 01101-08 **Product type** : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

Industrial use only. Metal working fluids

Uses advised against

Consumer use.

Manufactured/supplied : BLASER SWISSLUBE AG

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e-mail address of person responsible for this SDS

**Emergency telephone** 

number (with hours of

operation)

: reach@blaser.com

: +1 866 928 0789 (Toll free)

### 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 : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

**GHS** label elements

**Hazard pictograms** 



Signal word : Warning

: F315 - Causes skin irritation. **Hazard statements** 

H319 - Causes serious eye irritation.

**Precautionary statements** 

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.

P264 - Wash thoroughly after handling.

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### Section 2. Hazards identification

Response

: P302 + P352 - IF ON SKIN: Wash with plenty of water.

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Hazards not otherwise classified

: None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	Identifiers
reodecanoic acid	≤10	CAS: 26896-20-8
2-aminoethanol	≤5	CAS: 141-43-5
sodium hydroxide	≤3	CAS: 1310-73-2
citric acid	≤3	CAS: 77-92-9
benzotriazole	≤3	CAS: 95-14-7

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

#### Additional information:

Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and would 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. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. Get medical attention.

Inhalation

: Woid breathing vapor or mist. 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 adverse health effects persist or are severe. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** 

: Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. 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 if adverse health effects persist or are severe. 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.

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### Section 4. First aid measures

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**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**: Mo action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide
carbon monoxide
nitrogen 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.

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### 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. Avoid breathing vapor or mist. 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".

#### **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

Spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

### Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Fut on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 between the following temperatures: -15 to 40°C (5 to 104°F). Shelf life: (minimum) 24 months. 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. 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**

NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m3 (particulate)

Ingredient name	Exposure limits
neodecanoic acid	None.
2-aminoethanol	None.
sodium hydroxide	None.
citric acid	None.
benzotriazole	None.

#### **Biological exposure indices**

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# Section 8. Exposure controls/personal protection

No exposure indices known.

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**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. Wear suitable gloves tested to EN374. Nitrile gloves. thickness 0.3 mm (minimum).

**Body protection** 

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

**Respiratory protection** 

: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

# 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 : Liquid.
Color : Light tan.
Odor : Characteristic.
Odor threshold : Not available.

**pH** : 8.7 to 9.4 [Conc. (% w/w): 5%]

Melting point/freezing point : Not available.

Pour point : <5°F

Boiling point or initial : >212°F

boiling point and boiling

range

Flash point : Open cup: Not applicable.

**Evaporation rate** : Not available.

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# Section 9. Physical and chemical properties and safety characteristics

Flammability
Lower and upper explosion

Not available.Not available.

limit/flammability limit
Vapor pressure

Relative vapor density

: Not available.: Not available.

: Not available.

Relative density

Density

: 1.105 g/cm³ [68°F (20°C)]

Solubility(ies)

. .

Miscible with water

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature

Not available.Not available.

Decomposition temperature Viscosity

: Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (104°F (40°C)): 10.3 mm<sup>2</sup>/s (10.3 cSt)

**VOC** content

: 30 g/l (ASTM E1868-10); Concentrate in the packaging as sold.

1.5 g/l (ASTM E1868-10); @ Maximum concentration

**Particle characteristics** 

Median particle size : Not applicable.

### Section 10. Stability and reactivity

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

Chemical stability : Shelf life: (minimum) 24 months.

**Possibility of hazardous** 

reactions

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

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

2-aminoethanol

Product/ingredient name Result

preodecanoic acid Rat - Dermal - LD50

3640 mg/kg **Rat - Oral - LD50**>2000 mg/kg **Rat - Oral - LD50** 

1720 mg/kg **Rabbit - Dermal - LD50** 

2504 mg/kg

sodium hydroxide Rat - Oral - LD50

>2000 mg/kg

citric acid Rabbit - Dermal - LD50

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# **Section 11. Toxicological information**

>2000 mg/kg benzotriazole Rat - Oral - LD50

500 mg/kg

Rabbit - Dermal - LD50

>2000 mg/kg

**Conclusion/Summary [Product]** : Not available.

**Skin corrosion/irritation** 

Product/ingredient name Result

Z-aminoethanol Rabbit - Skin - Moderate irritant

Amount/concentration applied: 505 mg

**Conclusion/Summary [Product]** : pH value - Used for classification

Serious eye damage/eye irritation

Product/ingredient name Result

Z-aminoethanol Rabbit - Eyes - Severe irritant

Amount/concentration applied: 250 ug

citric acid Rabbit - Eyes - Mild irritant

**Duration of treatment/exposure**: 0.5 minutes

Amount/concentration applied: 5 mg

**Conclusion/Summary [Product]**: Not available.

**Respiratory corrosion/irritation** 

Not available.

**Conclusion/Summary [Product]**: Not available.

Respiratory or skin sensitization

Not available.

Skin

**Conclusion/Summary [Product]** : Not available.

Respiratory

**Conclusion/Summary [Product]** : Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

Carcinogenicity

Not available.

**Conclusion/Summary [Product]**: Not available.

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# **Section 11. Toxicological information**

#### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name Result

**Z**-aminoethanol SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

citric acid SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**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 : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

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# **Section 11. Toxicological information**

**Conclusion/Summary [Product]** : Not available.

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

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Grindex 10	>2000	>2000	N/A	108.6	N/A
neodecanoic acid	500	3640	N/A	N/A	N/A
2-aminoethanol	1720	1100	N/A	11	N/A
sodium hydroxide	500	N/A	N/A	N/A	N/A
citric acid	N/A	2500	N/A	N/A	N/A
benzotriazole	500	2500	N/A	N/A	N/A

# **Section 12. Ecological information**

#### **Toxicity**

benzotriazole

Product/ingredient name

reodecanoic acid Acute - LC50

Fish

Result

>100 mg/l [96 hours]

Acute - EC50 Daphnia

>100 mg/l [48 hours]

2-aminoethanol Acute - LC50 - Fresh water

Fish - Bluegill - Lepomis macrochirus

Size: 40 to 50 mm 329160 µg/l [96 hours] Effect: Mortality Chronic - NOEC

Fish

1.2 mg/l [30 days] Chronic - NOEC

Daphnia

0.85 mg/l [21 days] **Acute - EC50** 

**OECD** 

Daphnia - Water flea - Daphnia galeata

Age: <24 hours 15.8 mg/l [48 hours] Effect: Intoxication

LC50 Fish

180 mg/l [96 hours]

EC50 Algae

75 mg/l [72 hours]

Conclusion/Summary [Product] : Not available.

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# **Section 12. Ecological information**

#### Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
enzotriazole	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
neodecanoic acid	2.1	<225	Low
2-aminoethanol	-1.31	-	Low
citric acid	-1.72	-	Low
benzotriazole	1.44	-	Low

#### **Mobility in soil**

Soil/Water partition

coefficient

: Not available.

#### Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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# **Section 14. Transport information**

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 available.

to IMO instruments

### Section 15. Regulatory information

**U.S. Federal regulations** 

: TSCA 4(a) proposed test rules: benzotriazole

FSCA 5(a)2 final significant new use rules: 1-(N,N-bis(2-hydroxyethyl)amino)propan-

**FSCA 5(e) substance consent order**: 1-(N,N-bis(2-hydroxyethyl)amino)propan-2-ol

SCA 8(a) CDR Exempt/Partial exemption: Not determined commerce control list precursor: 2,2',2"-nitrilotriethanol

Clean Water Act (CWA) 311: sodium hydroxide

#### TSCA 12(b) - Chemical export notification

	One time notification		Annual notifi	cation	
Name	4	5	<b>5</b> (f)	6	7
Propanol, 1-[bis(2-hydroxyethyl)amino]-	Not listed	Listed	Not listed	Not listed	Not listed

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

: Not listed

: Listed

**Class I Substances** 

**Clean Air Act Section 602** 

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**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 : SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

#### Composition/information on ingredients

Name	%	Classification
reodecanoic acid	≤10	ACUTE TOXICITY (oral) - Category 4
2-aminoethanol	≤5	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
sodium hydroxide	≤3	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4

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# Section 15. Regulatory information

		SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1
citric acid	≤3	EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
benzotriazole	≤3	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A

#### California Prop. 65

▲ WARNING: This product can expose you to Diethanolamine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

		Maximum acceptable dosage level
Diethanolamine	-	-

#### **California SCAQMD Rule 1144:**

Category: Metalworking Fluid – Metal Removal – General. Recordkeeping requirement: Super Compliant. (< 50 g/L VOC @ max. use concentration)

#### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

List name	Ingredient name	Status
Schedule III	Triethanolamine	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**

Canada : All components are listed or exempted.United States : All components are active or exempted.

### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
	Expert judgment Expert judgment

#### **History**

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### Section 16. Other information

Prepared by

: Product Stewardship Blaser Swisslube AG

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

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

SGG = Segregation Group

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 above-named 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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