SAFETY DATA SHEET



FINISH® Powerball® Max In 1™ Tablets - Fresh/Lemon Scent

1. Product and company identification

Product name Distributed by : FINISH® Powerball® Max In 1™ Tablets - Fresh/Lemon Scent

Reckitt Benckiser LLC.
 Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

Reckitt Benckiser (Canada) Inc. 1680 Tech Avenue, Unit #2 Mississauga, Ontario L4W 5S9

CANADA

Telephone: +1 905 283 7000

Emergency telephone number (Medical)

: 1-800-338-6167

Emergency telephone number (Transport)

: 1-800-424-9300 (U.S. & Canada) CHEMTREC

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : http://www.rbnainfo.com

Product use : Detergent for use in domestic automatic dishwashers

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS # : D8369448 v3.0

Formulation # : 3111266 v2.0 (Fresh); 3111303 v2.0 (Lemon)

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

Identified uses

Consumer use of washing and cleaning products Consumer uses

2. Hazards identification

Classification of the substance or mixture

: EYE IRRITATION - Category 2A

GHS label elements

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 1/13

2. Hazards identification

Hazard pictograms



Signal word Warning

Hazard statements Causes serious eye irritation.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention : Wear eye or face protection. Wash hands thoroughly after handling.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if Response

present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

: Not applicable. **Storage Disposal** : Not applicable. Supplemental label None known.

elements

Hazards not otherwise

: None known.

classified

Eye contact

3. Composition/information on ingredients

Substance/mixture Mixture

Ingredient name	%	CAS number
disodium carbonate, compound with hydrogen peroxide (2:3)	≥30 - ≤60 ≥5 - ≤10 7 - 13	497-19-8 15630-89-4 25322-68-3

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 as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessary first aid measures

: 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.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If Inhalation

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.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

• FF3111303_FF3111266_D8369448_NASDS # Code # 2/13 : D8369448 v3.0 **Date of issue** : 1/21/2020

4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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 : No known significant effects or critical hazards.
 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: 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. It may

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

See toxicological information (Section 11)

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

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 3/13

5. Fire-fighting measures

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.

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".

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. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, 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.

7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

Conditions for safe storage, : including any incompatibilities

Do not store above the following temperature: 30°C (86°F). Daily average of 30°C. 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.

Recommended Storage Temperature for 1 week : 30 to 40 °C

• FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 **Date of issue** : 1/21/2020 4/13 Code #

8. Exposure controls/personal protection

Control

Occupational exposure limits

Ingredient name

 $Poly(oxy\text{-}1,2\text{-}ethanediyl), \alpha\text{-}hydro\text{-}\omega\text{-}hydroxy\text{-}\ Ethane\text{-}1,2\text{-}diol,}$

ethoxylated

Exposure limits

AIHA WEEL (United States, 5/2018).

TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls

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

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

: 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.

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.

9. Physical and chemical properties

Appearance

Physical state : Solid. [Tablet.]
Color : Not available.

Odor threshold : Not available.

Not available.

pH : 9.5to 10.2 [Conc. (% w/w): 1%]

Melting point : Not available.

Boiling point : Not available.

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 5/13

9. Physical and chemical properties

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : Not available.

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Heat of reaction: <300 J/g

SADT : >55°C (>131°F) Viscosity : Not available.

Aerosol product

10. Stability and reactivity

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

Chemical stability : The product is stable. Do not expose to temperatures exceeding 50 °C/122 °F.

Possibility of hazardous

reactions

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

Conditions to avoid : Keep away from heat and direct sunlight. Protect from moisture.

Incompatible materials

Hazardous decomposition

products

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

not be produced.

No specific data.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium carbonate	LD50 Dermal LD50 Oral		>2000 mg/kg 2800 mg/kg	-
disodium carbonate, compound with hydrogen	LD50 Oral		1034 mg/kg	-
peroxide (2:3) Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	LD50 Oral	Rat	5000 mg/kg	-
amylase, α-	LD50 Oral	Rat	>7500 mg/kg	-

Conclusion/Summary

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

Irritation/Corrosion

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 6/13

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium carbonate	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin
 Based on available data, the classification criteria are not met.
 Eyes
 Based on Calculation method: Causes serious eye irritation.
 Respiratory
 Based on available data, the classification criteria are not met.

Sensitization

Not available.

Conclusion/Summary

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

Mutagenicity

Not available.

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

Carcinogenicity

Not available.

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

Reproductive toxicity

Not available.

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

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 7/13

11. Toxicological information

Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics

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

> pain or irritation watering

redness : No specific data.

Inhalation 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

: Not available. Potential immediate

effects

Potential delayed effects Not available.

Potential chronic health effects

Not available.

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

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. Fertility effects

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/ I)
Finish Max in 1	4115.2	5952.1	N/A	N/A	N/A
sodium carbonate	2800	2500	N/A	N/A	N/A
disodium carbonate, compound with hydrogen peroxide (2:3)	1034	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	5000	N/A	N/A	N/A	N/A

• FF3111303_FF3111266_D8369448_NASDS # **Date of issue** : 1/21/2020 8/13 Code # : D8369448 v3.0

11. Toxicological information

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 242000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 µg/l Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
disodium carbonate, compound with hydrogen peroxide (2:3)	Acute EC50 70 mg/l	Algae - Chlorella emersonii	240 hours
. ,	Acute EC50 4.9 mg/l	Daphnia - Daphnia Pulex	48 hours
	Acute LC50 70.7 mg/l	Fish - Pimephales promelas	48 hours
$\label{eq:condition} \begin{split} & \text{Poly}(\text{oxy-1,2-ethanediyl}), & \text{α-hydro-ω-hydroxy-} \\ & \text{Ethane-1,2-diol}, \ ethoxylated \end{split}$	Acute LC50 >1000000 μg/l Fresh water	Fish - Salmo salar - Parr	96 hours
amylase, α-	Acute EC50 3865 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours

Conclusion/Summary

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

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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.

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 9/13

14. Transport information

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

<u>Additional information</u>

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 Annex II of MARPOL and

the IBC Code

15. Regulatory information

U.S. Federal regulations

: TSCA 4(a) proposed test rules: benzotriazole; methyl-1H-benzotriazole

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: toluene; Acetic acid, zinc salt, hydrate (2:1:2) Clean Water Act (CWA) 311: toluene; Acetic acid, zinc salt, hydrate (2:1:2)

Clean Air Act Section 112

: Listed

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

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

• FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 **Date of issue** : 1/21/2020 10/13 Code #

15. Regulatory information

SARA 311/312

Classification : EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
sodium carbonate	≥30 - ≤60	EYE IRRITATION - Category 2A
disodium carbonate, compound	≥5 - ≤10	OXIDIZING SOLIDS - Category 3
with hydrogen peroxide (2:3)		ACUTE TOXICITY (oral) - Category 4
		SERIOUS EYE DAMAGE - Category 1
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	7 - 13	EYE IRRITATION - Category 2B

State regulations

Massachusetts : The following components are listed: CELLULOSE

New York : None of the components are listed.

New Jersey : The following components are listed: CELLULOSE **Pennsylvania** : The following components are listed: CELLULOSE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

		Maximum acceptable dosage level
Toluene	-	Yes.

Label elements

CPSC

Signal word : CAUTION

: HARMFUL IF SWALLOWED. EYE IRRITANT. **Hazard statements**

Precautionary measures : KEEP OUT OF REACH OF CHILDREN. DO NOT ingest. DO NOT get in eyes.

CCCR

: CAUTION Signal word

Hazard statements : HARMFUL IF SWALLOWED.

MAY IRRITATE EYES.

: DO NOT ingest. DO NOT get in eyes. **Precautionary measures**

Keep out of reach of children.

Additional information / Recommendations

Additional information : For US Use only:

Contains Sodium Carbonate, Sodium Percarbonate, and Enzymes.

Contains less than 0.5% phosphorous by weight.

For Canada Use only:

Contains Sodium Carbonate, Sodium Percarbonate and Enzymes.

Contains less than 0.5% phosphorous by weight.

If swallowed, call a poison control center or doctor immediately. Have person drink a glass of water if able to swallow. Do not give anything to an unconscious person. Do not induce vomiting. If in eyes, immediately rinse eyes with water. Remove any contact lenses if present and continue rinsing for 15 minutes. If irritation persists, get medical attention.

• FF3111303_FF3111266_D8369448_NASDS # Code # : D8369448 v3.0 11/13 **Date of issue** : 1/21/2020

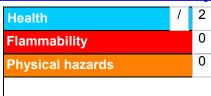
15. Regulatory information

Recommendations : No known significant effects or critical hazards.

Recommendations : No known significant effects or critical hazards.

16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



NFPA (30B) aerosol Flammability Not applicable

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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)

UN = United Nations

Date of issue : 1/21/2020
Date of previous issue : 1/21/2020

Version : 3.0

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 12/13

16. Other information

Prepared by : RB - Reckitt Benckiser Global R&D GmbH

Global Safety Assurance - Hygiene Home Safety, Quality, Regulatory & Compliance

Robert-Koch-Str. 1 69115 Heidelberg Germany

Revision comments: Update of PSDS.

▼ 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.



RB is a member of the CSPA Product Care Product Stewardship Program.

Code # : FF3111303_FF3111266_D8369448_NASDS # : D8369448 v3.0 Date of issue : 1/21/2020 13/13