Product and company identification

SAFETY DATA SHEET

HEALTH - HYGIENE - HOME

Finish Jet-Dry Rinse Aid - Original

Product name	: Finish Jet-Dry Rinse Aid - Original
Distributed by	 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

4

Rinse aids for automatic dishwasher (Consumer Use).

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 #	:	D8258285 v10.0
Formulation #	:	8328984 v4.0

2. Hazards identification

Classification of the substance or mixture

: EYE IRRITATION - Category 2A

GHS	label	elements
		01011101110

Hazard pictograms



Signal word	arning	
Hazard statements	uses serious eye irritation.	
Precautionary statements		
General	ad label before use. Keep out of reach of children. If medical advice is r ve product container or label at hand.	needed,
Prevention	ear eye or face protection. Wash hands thoroughly after handling.	
Response	IN EYES: Rinse cautiously with water for several minutes. Remove contesent and easy to do. Continue rinsing. If eye irritation persists: Get med	,
Storage	t applicable.	
Disposal	t applicable.	
Supplemental label elements	ne known.	
Hazards not otherwise classified	ne known.	

3. Composition/information on ingredients

Substance	/mixture
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: Mixture

Ingredient name	%	CAS number
Alcohols, C12-15-branched and linear, ethoxylated propoxylated or	3-7	120313-48-6
Alcohols, C12-15, ethoxylated propoxylated Isotridecanol, ethoxylated	- 3-7 3-7	- 68551-13-3 9043-30-5
or Alcohols, C11-14-iso-, C13-rich, ethoxylated	- 3-7	- 78330-21-9
sodium cumenesulphonate citric acid	1-5 1-5	28348-53-0 77-92-9

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

- Eye contact
- : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

4. First aid measures

Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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 effe	<u>cts</u>
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.
<u>Over-exposure signs/symp</u>	<u>itoms</u>
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 me	lical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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 solf contained broathing apparatus. It may be denorous to the person providing aid to

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)

Code #	: 8328984_D8258285	SDS #	: D8258285 v10.0	Date of issue	: 22/08/2019	3/13
	(US)					

5. Fire-fighting measures

On the base of the sector behavior of the sector of the base of th	
Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire. media	
Unsuitable extinguishing : None known. media	
Specific hazards arising : No specific fire or explosion hazard. from the chemical	
Hazardous thermal : No specific data. decomposition products	
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 breathi apparatus (SCBA) with a full face-piece operated in positive pressure mode.	ng

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. Do not breathe 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 non-emergency 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 co	ntainment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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 get in eyes or on skin or clothing. Do not breathe vapor or mist. 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.
Conditions for safe storage, including any incompatibilities	:	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.

8. Exposure controls/personal protection

Control	
Occupational exposure lin	<u>its</u>
Not applicable.	
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 meas	<u>res</u>
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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: 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.

8. Exposure controls/personal protection

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

<u>Appearance</u>	
Physical state	: Liquid. [Transparent]
Color	: Blue.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 2.8 to 3.4 [Conc. (% w/w): 100%]
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: >93.3°C (>199.9°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.045 to 1.065
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	: Not available.
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** : Under normal conditions of storage and use, hazardous reactions will not occur. reactions **Conditions to avoid** : Keep away from heat and direct sunlight. Incompatible materials : No specific data. **Hazardous decomposition** : Under normal conditions of storage and use, hazardous decomposition products should not be produced. products

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C12-15-branched and linear, ethoxylated propoxylated (CAS#120313-48-6)	LD50 Oral	Rat	10000 mg/kg	-
sodium cumenesulphonate (CAS#28348-53-0)	LD50 Dermal	Rat	2000 mg/kg	-
citric acid (CAS#77-92-9)	LD50 Oral LD50 Oral	Rat Rat	7000 mg/kg 11700 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isotridecanol, ethoxylated (CAS#9043-30-5)	Eyes - Iris lesion	Rabbit	5	-	21 days
	Eyes - Cornea opacity	Rabbit	43.33	-	21 days
	Eyes - Edema of the conjunctivae	Rabbit	5.33	-	-
	Skin - Mild irritant	Rabbit	-	-	7 days
citric acid (CAS#77-92-9)	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 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.
Respiratory	: 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.	
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11. Toxicological information

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

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

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.

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

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

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11. Toxicological information

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	>5000 mg/kg

12. Ecological information

Toxicity **Product/ingredient name** Result **Species** Exposure Fish Alcohols, C12-15-branched Acute LC50 1 to 10 mg/l 96 hours and linear, ethoxylated propoxylated (120313-48-6) Chronic NOEC >0.1 mg/l Daphnia 21 days 96 hours sodium cumenesulphonate Acute EC50 230 mg/l Algae - Pseudokirchnerella (CAS#28348-53-0) subcapitata 48 hours Acute EC50 54 mg/l Daphnia - Daphnia magna, mobility 96 hours Acute LC50 1000 mg/l Fish - Oncorhynchus mykiss citric acid (CAS#77-92-9) Acute LC50 160000 µg/l Marine water Crustaceans - Carcinus maenas -48 hours Adult

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Alcohols, C12-15-branched and linear, ethoxylated propoxylated (CAS#120313-48-6)	-	>60 % - Re	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Alcohols, C12-15-branched and linear, ethoxylated propoxylated (CAS#120313-48-6) sodium cumenesulphonate (CAS#28348-53-0)	-		-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
citric acid (CAS#77-92-9)	-1.8	-	low

Mobility in soil

12. Ecological information

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.

14. Transport information

	DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
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.

Additional 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 Annex II of MARPOL and the IBC Code

15. Regulatory information **U.S. Federal regulations** : 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: Acetic acid, zinc salt, hydrate (2:1:2) Clean Water Act (CWA) 311: sodium hydroxide; ammonia, anhydrous; Acetic acid, zinc salt, hydrate (2:1:2) **Clean Air Act Section 112** : Listed (b) Hazardous Air **Pollutants (HAPs) Clean Air Act Section 602** : Not listed **Class I Substances Clean Air Act Section 602** : Not listed **Class II Substances DEA List I Chemicals** : Not listed (Precursor Chemicals) **DEA List II Chemicals** : Not listed (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
ammonia, anhydrous	0.0000025	Yes.	500	-	100	-

SARA 304 RQ

: 400000000 lbs / 1816000000 kg [454726489.5 gal / 1721327014.2 L]

SARA 311/312 Classification

: SERIOUS EYE DAMAGE - Category 1

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	≥5 - <10	No.	No.	No.	Yes.	No.
Isotridecanol, ethoxylated sodium cumenesulphonate citric acid	≥5 - ≤10 ≥1 - ≤5 ≥1 - ≤5	No. No. No.	No. No. No.	No. No. No.	Yes. Yes. Yes.	No. No. No.

State regulations

- Massachusetts
- New York
- New Jersey
- : None of the components are listed.

: None of the components are listed.

- New Jersey
- None of the components are listed.None of the components are listed.
- Pennsylvania
- Label elements

Signal word

<u>CPSC</u>

: CAUTION!

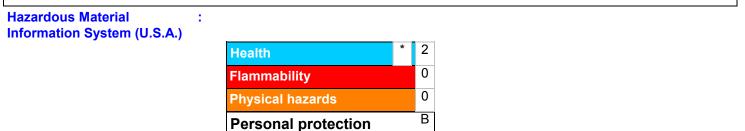
Code # : 8328984_D8258285 SDS # : D8258285 v10.0 Date of issue : 22/08/2019 11/13 (US)

15. Regulatory information

0 ,	
Hazard statements	: Eye Irritant
Precautionary measures	: Keep out of the reach of children. Do not get in eyes.Contains surfactants.
CCCR	
Signal word	: CAUTION
Hazard statements	: Eye Irritant
	May cause eye irritation.
Precautionary measures	: Keep out of reach of children. Do not get in eyes. Contains surfactants.
<u>EPA</u>	
Signal word:	: Not applicable.
Hazard statements	: Not applicable.
Cosmetics. / Medicinal pro	<u>ducts</u>
Precautionary measures	: Not applicable.
-	Not applicable.
	Not applicable.
	Not applicable.
Additional information / Re	ecommendations
Recommendations	: "if on skin, rinse well with water" Prolonged skin contact with the non-ionic surfactant could result in slight skin irritation.

Read label before use.

16. Other information



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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16. Other information

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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 = International Air Transport Association IBC = 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 HMIS Health Hazard 1= Irritation or minor reversible injury possible. NFPA Health Hazard 1= Exposure would cause irritation with only minor residual injury.
Date of issue	: 22/08/2019
Date of previous issue	: 14/08/2019
Version	: 10.0
Prepared by	: Reckitt Benckiser India Ltd Plot No 48 Sector - 32 Institutional Area Gurgaon, Haryana India - 122001

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.