# **SAFETY DATA SHEET**



#### Citrusuds

## Section 1. Identification

GHS product identifier : Citrusuds
Product code : 2109

Other means of : Not available. identification

Product type : Liquid.

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

Identified uses		
Manual Dishwashing Detergent		
Uses advised against	Reason	

Supplier's details : Betco Corporation

400 Van Camp Road Bowling Green, Ohio 43402

www.betco.com 888-462-3826

Emergency telephone number (with hours of

operation)

: Chemtrec (800) 424-9300 24 hour

## 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

: EYE IRRITATION - Category 2A

## **GHS label elements**

Hazard pictograms



Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

**Precautionary statements** 

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

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

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

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise

classified

: None known.

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# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	%	CAS number
sodium dodecylbenzenesulfonate	≥10 - ≤25	25155-30-0
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	≤3	68585-34-2
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	≤3	68585-47-7
Isononyl alcohol ethoxylate	≤3	2242406-13-7
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	≤3	68439-57-6

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.

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. Chemical burns must be treated promptly by a physician.

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 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.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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. 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

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## Section 4. First aid measures

**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

: 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. 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.

: None known.

Unsuitable extinguishing media

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

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.

# 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 non-emergency 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). Water polluting material. May be harmful to the environment if released in large quantities.

## Methods and materials for containment 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.

# Section 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. Avoid breathing vapor or mist. Avoid release to the environment. 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. 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
sodium dodecylbenzenesulfonate	None.
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	None.
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	None.
Alcohols, C9-11, ethoxylated	None.
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	None.

## **Appropriate engineering** controls

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

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# Section 8. Exposure controls/personal protection

# **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.

# Section 9. Physical and chemical properties

: Not available.

## **Appearance**

**Boiling point** 

Physical state : Liquid.

Color : Clear. Yellow.

Odor : Lemon-like.

Odor threshold : Not available.

pH : 6.5 to 9.5

Melting point : Not available.

Flash point : Closed cup: >150°C (>302°F)

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 : 1.0237

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# Section 9. Physical and chemical properties

Solubility: Not available.Solubility in water: Not available.Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.Flow time (ISO 2431): Not available.

# Section 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.

Possibility of hazardous reactions

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

Conditions to avoid : No specific data.

**Incompatible materials**: Not available.

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**

Product/ingredient name	Result	Species	Dose	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs.	LD50 Dermal	Rabbit	2000 mg/kg	-
Alcohols, C9-11, ethoxylated	LD50 Oral LD50 Oral		775 mg/kg 1378 mg/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium dodecylbenzenesulfonate	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Eyes - Severe irritant Skin - Moderate irritant	Rabbit Rabbit	-	1 Percent 24 hours 20 milligrams	-

## Sensitization

Not available.

## **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

## Reproductive toxicity

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# **Section 11. Toxicological information**

Not available.

### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

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: Dermal.

Routes of entry not anticipated: Oral, Inhalation.

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

**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.

General
 Carcinogenicity
 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
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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# Section 11. Toxicological information

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs.	Acute EC50 5.65 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
-	Acute EC50 7.81mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
-	Acute EC50 0.15 ppmFresh water	Daphnia Daphnia pulex	48 hours
-	Acute IC50 112.4 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata- Exponential growth phase	72 hours
-	Acute EC50 1.18 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Sulfuric acid, mono- C10-16-alkyl esters, sodium	Acute EC50 1.37 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
salts Alcohols, C10-16, ethoxylated, sulfates, sodium salts	Acute EC50 3.43 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Alcohols, C9-11, ethoxylated	Acute EC50 5.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 2686 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
-	Acute LC50 8500 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Acute EC50 4.53 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
-	Acute EC50 40.38mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
-	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
-	Chronic NOEC 56 mg/l Marine water	Fish - Poecilia reticulata - Young	96 hours

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-1.3	-	low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

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# 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	ADR/RID	IMDG	IATA
UN number	UN3082	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (sodium dodecylbenzenesulfonate)	-	-	-	-	-
Transport hazard class(es)	9	-	-	-	-	-
Packing group	III	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

## **Additional information DOT Classification**

: Reportable quantity 8778.7 lbs / 3985.6 kg [1028.5 gal / 3893.3 L]. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.

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 to Annex II of MARPOL and the IBC Code

: Not available.

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# Section 15. Regulatory information

U.S. Federal regulations

: TSCA 5(a)2 proposed significant new use rules: 5-chloro-2-methyl-2H-isothiazol-

3-one

TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 307: tetrasodium hexacyanoferrate Clean Water Act (CWA) 311: sodium dodecylbenzenesulfonate

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

**Clean Air Act Section 602** 

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

. INOL HOLE

**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)
hydrogen peroxide	≤0.1	Yes.	1000	106.1	1000	106.1

SARA 304 RQ : 19762845.8 lbs / 8972332 kg [2315365.2 gal / 8764610.7 L]

**SARA 311/312** 

Classification : EYE IRRITATION - Category 2A

#### Composition/information on ingredients

Name	%	Classification
Benzenesulfonic acid, C10-16-alkyl derivs.	≤10	EYE IRRITATION - Category 2A
	≤3	SKIN IRRITATION - Category 2A
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	≤3	EYE IRRITATION - Category 2A
Alcohols, C9-11, ethoxylated	≤3	EYE IRRITATION - Category 2A
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	≤1.7	EYE IRRITATION - Category 2A

## **State regulations**

Massachusetts : Not listed.

New York : Not listed.

New Jersey : The following components are listed: Sodium (C14-16) olefin sulfonate

Pennsylvania : The following components are listed: Sodium (C14-16) olefin sulfonate

California Prop. 65

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

#### **International regulations**

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

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# **Section 15. Regulatory information**

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**

Australia : Not determined.

**Canada** : At least one component is not listed.

China : Not determined.

**Europe** : At least one component is not listed.

Japan inventory (ENCS): At least one component is not listed.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

# **Section 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.)



# **Section 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.

#### Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2A	Expert judgment

#### **History**

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revision

Date of previous issue : 9/16/2020 Version : 1.01

**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

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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