

# **Material Safety Data Sheet**

**Urinal Screen** 

# 1. Product and company identification

Product name	: Urinal Screen
Supplier	: Betco Corporation 1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826
Synonym	: Not available.
Trade name	: Not available.
Material uses	: Not available.
Manufacturer	: Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 www.betco.com 888-462-3826
Code	: 250
MSDS #	: 250
Validation date	: 4/1/2015.
Print date	: 4/1/2015.
In case of emergency	: Chemtrec (800) 424-9300
Product type	: Solid.

# 2. Hazards identification

Emergency overview		
Physical state	1	Solid. [plastic matrix]
Color	1	White.
Odor	1	Sweetish. Lemon-like.
Signal word	1	WARNING!
Hazard statements	:	CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. POSSIBLE CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.
Precautionary measures	:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Wash thoroughly after handling.
Routes of entry	1	Dermal contact. Eye contact.
Potential acute health effects	2	
Inhalation	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Skin	:	Moderately irritating to the skin.
Eyes	1	Severely irritating to eyes. Risk of serious damage to eyes.
Potential chronic health effe	<u>cts</u>	
Chronic effects	:	Contains material that may cause target organ damage, based on animal data.
Carcinogenicity	:	Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

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2. Hazards identi	fication
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, stomach.
Over-exposure signs/symp	<u>otoms</u>
Inhalation	: Not determined.
Ingestion	: Not determined.
Skin	: Adverse symptoms may include the following: irritation

	redness
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients				
Name	CAS number	%		
Starch	9005-25-8	20 - 40		
Amides, coco, N,N-bis(hydroxyethyl) 2,2'-iminodiethanol	68603-42-9 111-42-2	1 - 5 0.1 - 1		

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

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of water.
Skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
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.
Notes to physician	:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

Flammability of the product	No specific fire or explosion hazard.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special exposure hazards	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.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
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.
Special remarks on fire hazards	Not available.
Special remarks on explosion hazards	Not available.

### 6. Accidental release measures

Personal precautions	:	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 (see Section 8).
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 for cleaning up		
Small spill	:	Move containers from spill area. Avoid dust generation. Do not dry sweep. Place spilled material in a designated, labeled waste container. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. Handling and storage

Handling

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

### 7. Handling and storage

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.

### 8. Exposure controls/personal protection

Occupational exposure limits			TWA (8 hours)			STEL (15 mins)			g		
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
2,2'-iminodiethanol	US ACGIH 4/2014	-	1	-	-	-	-	-	-	-	[1] [a]
	AB 4/2009	-	2	-	-	-	-	-	-	-	[1]
	BC 4/2014	-	2	-	-	-	-	-	-	-	[1]
	ON 1/2013	-	1	-	-	-	-	-	-	-	[1] [a]
	QC 1/2014	3	13	-	-	-	-	-	-	-	[1]
Starch	US ACGIH 4/2014	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	
	BC 4/2014	-	3	-	-	-	-	-	-	$\vdash$	[b]
		-	10	-	-	-	-	-	-	$\vdash$	[c]
	ON 1/2013	-	10	-	-	-	-	-	-	$\vdash$	
	QC 1/2014	-	10	-	-	-	-	-	-	-	[d]

[1]Absorbed through skin.

Form: [a]Inhalable fraction and vapor [b]Respirable dust [c]Total dust [d]Total dust.

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Engineering measures	: 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.
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.
Personal protection	
Respiratory	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	: 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. < 1 hour (breakthrough time): disposable vinyl
Eyes	: 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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
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# 8. Exposure controls/personal protection

Skin	<ul> <li>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.</li> </ul>
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.
Other protection	: Not available.
Personal protective equipment (Pictograms)	: Not available.

# 9. Physical and chemical properties

Physical state	1	Solid. [plastic matrix]
Flash point	1	Closed cup: Not applicable. [Product does not sustain combustion.]
Burning time	1	Not available.
Burning rate	1	Not available.
Auto-ignition temperature	1	Not available.
Flammable limits	1	Not available.
Color	1	White.
Odor	1	Sweetish. Lemon-like.
Taste	1	Not available.
Molecular weight	1	Not applicable.
Molecular formula	1	Not applicable.
рН	1	Not available.
<b>Boiling/condensation point</b>	1	Not available.
Melting/freezing point	1	Not available.
Critical temperature	1	Not available.
Relative density	1	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Volatility	1	Not available.
Odor threshold	1	Not available.
Evaporation rate	1	Not available.
SADT	1	Not available.
Viscosity	1	Not available.
lonicity (in water)	1	Not available.
<b>Dispersibility properties</b>	1	Easily dispersible in the following materials: cold water.
Solubility	1	Not available.
Physical/chemical properties comments	;	Not available.

### 10. Stability and reactivity

Chemical stability	: The product is stable.
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.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

# **11. Toxicological information**

#### Acute toxicity

#### Not available.

### Chronic toxicity

Not available.

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Amides, coco, N,N-bis (hydroxyethyl)	Eyes - Severe irritant	Rabbit	-	100 microliters	-
	Skin - Moderate irritant	Rabbit	-	300 microliters	-
2,2'-iminodiethanol	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	5500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	50 milligrams	-
Starch	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-

**Conclusion/Summary** : Not available.

#### <u>Sensitizer</u>

Not available.

**Conclusion/Summary** : Not available.

#### **Carcinogenicity**

Not available.

#### **Conclusion/Summary** : Not available.

#### **Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Starch	A4	-	-	-	-	-
Amides, coco, N,N-bis (hydroxyethyl)	-	2B	-	-	-	-
2,2'-iminodiethanol	A3	2B	-	-	-	-

#### **Mutagenicity**

Not available.

# 11. Toxicological information

Conclusion/Summary	: Not available.
Teratogenicity	
Not available.	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Not available.	
Conclusion/Summary	: Not available.
Synergistic products	: Not available.

# **12. Ecological information**

Ecotoxicity

: No known significant effects or critical hazards.

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Product/ingredient name	Result	Species	Exposure
2,2'-iminodiethanol	Acute EC50 12 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 28800 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 2150 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Conclusion/Summary	: Not available.		
Persistence/degradability			
Not available.			
Conclusion/Summary	: Not available.		
Partition coefficient: n- octanol/water	: Not available.		
Bioconcentration factor	: Not available.		
lobility	: Not available.		
oxicity of the products of iodegradation	: Not available.		
Other adverse effects	: No known significant effects or critical	hazards.	

# 13. Disposal considerations

Waste disposal	: 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.
Waste stream	: Not available.
RCRA classification	: Not available.

Urinal Screen

### 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 14. Transport information

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Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

# 15. Regulatory information

United States inventory (TSCA 8b)	; Not determined.
WHMIS (Canada)	: Not controlled under WHMIS (Canada).
Canadian lists	
Canadian NPRI	: None of the components are listed.
<b>CEPA Toxic substances</b>	: None of the components are listed.
Canada inventory	: Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations	
International lists	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule Il Chemicals	: Not listed

### **15. Regulatory information**

Chemical Weapons Convention List Schedule III Chemicals : Not listed

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### 16. Other information

Label requirements

: CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. POSSIBLE CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

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

Health	*	2
Flammability		0
Physical hazards		0

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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

References	:	Not available.
Other special considerations	:	Not available.
Date of printing	:	4/1/2015.
Date of issue	:	4/1/2015.
Date of previous issue	:	9/18/2012.
Version	:	1
Prepared by	:	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.