

### SECTION 1: Identification

#### 1.1. Identification

Product name : 20x (For Further Manufacture) Concentrate

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

Use of the substance/mixture : Diluted will make (Pre- and Post- Milking Antimicrobial / Disinfectant)

#### 1.3. Details of the supplier of the safety data sheet

ABS Corporation  
7031 N 16th St  
Omaha, NE 68112

#### 1.4. Emergency telephone number

Emergency number : 402-453-6970

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Acute Tox. 4 (Oral)	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Carc. 1A	H350
Repr. 1B	H360
STOT RE 2	H373

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H350 - May cause cancer  
H360 - May damage fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a poison center or doctor  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P330 - Rinse mouth.  
P363 - Wash contaminated clothing before reuse.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phenol	(CAS-No.) 108-95-2	Trade Secret	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives	(CAS-No.) 85536-14-7	Trade Secret	Acute Tox. 4 (Oral), H302
Glycerin	(CAS-No.) 56-81-5	Trade Secret	Not classified
Borax (B4Na2O7.10H2O)	(CAS-No.) 1303-96-4	Trade Secret	Repr. 1B, H360
Water	(CAS-No.) 7732-18-5	Trade Secret	Not classified
Benzene, C10-13-alkyl derivatives	(CAS-No.) 67774-74-7	Trade Secret	Not classified
Sulfuric acid	(CAS-No.) 7664-93-9	Trade Secret	Carc. 1A, H350
Sodium hydroxide	(CAS-No.) 1310-73-2	Trade Secret	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation persists.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove any contact lenses. Immediately flush eyes with water for at least 15 minutes. Lift eyelids occasionally. If condition worsens or irritation persists, get medical attention immediately.
First-aid measures after ingestion	: Do not induce vomiting. If conscious, drink large quantities of water to dilute. Get immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.
Symptoms/effects after skin contact	: Causes severe skin irritation. Harmful if absorbed through the skin. Direct, prolonged skin contact results in burns. Phenol solutions may be absorbed through the skin rapidly to cause systemic poisoning and possibly death.
Symptoms/effects after eye contact	: Contact with liquid or vapor may cause severe burns and possible irreversible eye damage
Symptoms/effects after ingestion	: Causes digestive tract burns with immediate pain, swelling of the throat, convulsions, and possible coma..

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Protection during firefighting : As in any fire, wear self-contained breathing apparatus (pressuredemand, MSHA/NIOSH approved or equivalent) and full protective gear. Equipment should be thoroughly decontaminated after use.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate the area of the leak or spill. Cover with sand and shovel or sweep up bulk of spilled material in a manner that minimizes spread. Place recovered material in a suitable container. After removing all possible material, wash the contaminated surface with water to thoroughly clean the surface.

Other information : Dispose of all empty containers, contaminated products, debris, and clean up materials in accordance with applicable Federal, state or local procedures. Do not reuse containers.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from personal clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed. Keep out of reach of children. Do not store in direct sunlight. Avoid excessive heat.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Water (7732-18-5)		
Not applicable		
Phenol (108-95-2)		
ACGIH	ACGIH TWA (ppm)	5 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	5 ppm
IDLH	US IDLH (ppm)	250 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	60 mg/m <sup>3</sup>
NIOSH	NIOSH REL (ceiling) (ppm)	15.6 ppm
Glycerin (56-81-5)		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (mist, total particulate) 5 mg/m <sup>3</sup> (mist, respirable fraction)

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### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

Not applicable

### Benzene, C10-13-alkyl derivatives (67774-74-7)

Not applicable

### Sulfuric acid (7664-93-9)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (thoracic particulate matter)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

### Sodium hydroxide (1310-73-2)

ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

### Borax (B4Na2O7.10H2O) (1303-96-4)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (inhalable particulate matter)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (inhalable particulate matter)
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

## 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves.
Eye protection	: Wear ventilated safety glasses or chemical goggles.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear respiratory protection if workplace exposure limits may be exceeded.
Environmental exposure controls	: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Blue
Odor	: Mildly antiseptic
Odor threshold	: No data available
pH	: 7.5 - 8.5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.15 g/ml
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid elevated temperatures. Avoid direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents, halogens, and calcium hypochlorite.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>20x (For Further Manufacture) Concentrate</b>	
ATE US (oral)	792.281 mg/kg body weight
<b>Water (7732-18-5)</b>	
LD50 oral rat	> 90 ml/kg
<b>Phenol (108-95-2)</b>	
LD50 oral rat	340 mg/kg
LD50 dermal rabbit	630 mg/kg
ATE US (oral)	317 mg/kg
ATE US (dermal)	630 mg/kg
<b>Glycerin (56-81-5)</b>	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 inhalation rat (mg/l)	> 570 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE US (oral)	12600 mg/kg
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
LD50 oral rat	1219 mg/kg
ATE US (oral)	1219 mg/kg body weight
<b>Benzene, C10-13-alkyl derivatives (67774-74-7)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10200 mg/kg
<b>Sulfuric acid (7664-93-9)</b>	
LD50 oral rat	2140 mg/kg
LC50 inhalation rat (mg/l)	85 - 103 mg/m <sup>3</sup> (Exposure time: 1 h)
ATE US (oral)	2140 mg/kg
<b>Sodium hydroxide (1310-73-2)</b>	
LD50 oral rat	140 - 340 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE US (dermal)	1350 mg/kg

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<b>Borax (B4Na2O7.10H2O) (1303-96-4)</b>	
LD50 oral rat	3493 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/m <sup>3</sup> (Exposure time: 4 h)
ATE US (oral)	3493 mg/kg body weight

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.

<b>Phenol (108-95-2)</b>	
IARC group	3 - Not classifiable

<b>Sulfuric acid (7664-93-9)</b>	
IARC group	1 - Carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity – single exposure	: Not classified

Specific target organ toxicity – repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

<b>Phenol (108-95-2)</b>	
LC50 fish 1	11.9 - 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	4.24 - 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	20.5 - 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>Glycerin (56-81-5)</b>	
LC50 fish 1	51 - 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
LC50 fish 1	5.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])
EC50 Daphnia 1	5.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>Benzene, C10-13-alkyl derivatives (67774-74-7)</b>	
EC50 Daphnia 1	0.009 - 0.08 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>Sulfuric acid (7664-93-9)</b>	
LC50 fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])

<b>Sodium hydroxide (1310-73-2)</b>	
LC50 fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>Phenol (108-95-2)</b>	
BCF fish 1	(no significant bioaccumulation)
Log Pow	1.5

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<b>Glycerin (56-81-5)</b>	
BCF fish 1	(no bioaccumulation)
Log Pow	-1.76
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
Log Pow	2 (at 23 °C)
<b>Benzene, C10-13-alkyl derivatives (67774-74-7)</b>	
BCF fish 1	35
<b>Sulfuric acid (7664-93-9)</b>	
BCF fish 1	(no bioaccumulation)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phenol (108-95-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 - 10000 lb
SARA Section 313 - Emission Reporting	1 %
<b>Glycerin (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.
<b>Benzene, C10-13-alkyl derivatives (67774-74-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sulfuric acid (7664-93-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

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### Sodium hydroxide (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ	1000 lb
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### Borax (B4Na2O7.10H2O) (1303-96-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. US State regulations

### Phenol (108-95-2)

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Glycerin (56-81-5)

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Sulfuric acid (7664-93-9)

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Sodium hydroxide (1310-73-2)

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

### Borax (B4Na2O7.10H2O) (1303-96-4)

U.S. - Massachusetts - Right To Know List  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H350	May cause cancer
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*