

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Trade name : LEVEL GAUGE CLEANER  
 Product code : 24506-TC

#### 1.2. Recommended use and restrictions on use

Recommended use : Tissue digester for use in holding tanks

#### 1.3. Supplier

##### Manufacturer

Thetford LLC  
 7101 Jackson Road  
 Ann Arbor, MI 48103  
 USA  
 T (734) 769-6000  
[sds@thetford.com](mailto:sds@thetford.com)

#### 1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
USA	CHEMTREC - 24/7		(800) 424-9300	

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation  
 Respiratory sensitization, Category 1 H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : H319 - Causes serious eye irritation  
 H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled  
 Precautionary statements (GHS US) : P261 - Avoid breathing dust.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear eye protection.  
 P284 - [In case of inadequate ventilation] wear respiratory protection.  
 P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P342+P311 - If experiencing respiratory symptoms: Call a doctor.  
P501 - Dispose of contents/container to in accordance with local regulation..

### 2.3. Other hazards which do not result in classification

No additional information available

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

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Mixture of the following ingredients with non hazardous additions.

Name	Product identifier	%	GHS US classification
CITRIC ACID	CAS-No.: 77-92-9	10 – 20	Eye Irrit. 2, H319
CELLULASE	CAS-No.: 9012-54-8	1 – 5	Resp. Sens. 1, H334
Sodium tetradecyl sulfate	CAS-No.: 68585-47-7	0.1 – 5	Eye Dam. 1, H318 Skin Irrit. 2, H315

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 after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact : Gently wash with plenty of soap and water.

First-aid measures after eye contact : 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: Seek medical advice.

First-aid measures after ingestion : Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May elevate blood pressure.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes. Wear suitable protective clothing. Eliminate every possible source of ignition.

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

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Do not breathe dust. No flames, no sparks. Eliminate all sources of ignition.

##### 6.1.2. For emergency responders

Protective equipment : Protective gloves. Safety glasses.

#### 6.2. Environmental precautions

No additional information available

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

Methods for cleaning up : Eliminate all sources of ignition. Use spark proof tools. Minimize dusting and prevent distribution of airborne dust. Avoid inhalation of dust. Sweep up spills. Place in closed containers for disposal. Mop area with clean water. Dispose of in accordance with federal, state, and local regulations.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Wash thoroughly after handling. Avoid dust formation. Keep container tightly closed. Keep away from sources of ignition - No smoking.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Storage conditions : Store in a dry place. Store in a closed container. Keep cool. Keep away from ignition sources. Store in low humidity.  
Incompatible products : Strong acids.

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Storage temperature : < 38 °C below 100°F and 75% humidity

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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No additional information available

##### CELLULASE (9012-54-8)

No additional information available

##### CITRIC ACID (77-92-9)

No additional information available

##### Sodium tetradecyl sulfate (68585-47-7)

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Maintain adequate ventilation.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Hand protection:

Wear protective gloves.

##### Eye protection:

Chemical goggles or safety glasses

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

##### Personal protective equipment symbol(s):



##### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Granular solid.
Color	: Blue
Odor	: Fermentation like
Odor threshold	: No data available
pH	: 3.75 – 4.5

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pH solution	: 10 %
Melting point	: No data available
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)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Material highly soluble in water.
Partition coefficient n-octanol/water (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
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

Bulk density : 674 – 770 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Product releases carbon dioxide with the addition of water.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

Extremely high or low temperatures. Water, humidity.

### 10.5. Incompatible materials

Strong acids.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

### CELLULASE (9012-54-8)

LD50 oral rat	> 2960 mg/kg body weight Animal: rat, Guideline: other:
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CELLULASE (9012-54-8)	
LD50 oral	> 2000 mg/kg body weight
CITRIC ACID (77-92-9)	
LD50 oral rat	3000 mg/kg Source: OECD Screening Information Data Set
LD50 oral	5400 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 4500 - 6400
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 2000 mg/kg body weight
Sodium tetradecyl sulfate (68585-47-7)	
LD50 oral rat	> 2000 mg/kg Source: IUCLID, TOMES; LOLI;
Skin corrosion/irritation	: Not classified pH: 3.75 – 4.5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 3.75 – 4.5
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
CITRIC ACID (77-92-9)	
LOAEL (oral,rat,90 days)	8000 mg/kg body weight Animal: rat
NOAEL (oral,rat,90 days)	4000 mg/kg body weight Animal: rat
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May elevate blood pressure.

## SECTION 12: Ecological information

### 12.1. Toxicity

CELLULASE (9012-54-8)	
LC50 - Fish [1]	> 110.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 110.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110.1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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### CITRIC ACID (77-92-9)

LC50 - Fish [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	85 mg/l waterflea

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### LEVEL GAUGE CLEANER

Bioaccumulative potential	Not established.
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### CELLULASE (9012-54-8)

Partition coefficient n-octanol/water (Log Pow)	-1.3 Source: ECHA
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### CITRIC ACID (77-92-9)

Partition coefficient n-octanol/water (Log Pow)	-1.72
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### Sodium tetradecyl sulfate (68585-47-7)

Partition coefficient n-octanol/water (Log Pow)	2.18 Source: EPISUITE
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### 12.4. Mobility in soil

#### Sodium tetradecyl sulfate (68585-47-7)

Mobility in soil	196.1
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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : The generation of waste should be avoided or minimized wherever possible. Waste disposal should be in accordance with existing federal, state and local regulations.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (TDG)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

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### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not regulated

#### TDG

Transport hazard class(es) (TDG) : Not regulated

#### IMDG

Transport hazard class(es) (IMDG) : Not regulated

#### IATA

Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (DOT) : Not regulated

Packing group (TDG) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Not regulated

#### TDG

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### LEVEL GAUGE CLEANER

SARA Section 311/312 Hazard Classes

Health hazard - Serious eye damage or eye irritation

Health hazard - Respiratory or skin sensitization

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):



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Name	CAS-No.	Listing	Commercial status	Flags
CELLULASE	9012-54-8	Present	Active	XU
CITRIC ACID	77-92-9	Present	Active	
Sodium tetradecyl sulfate	68585-47-7	Present	Active	

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

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Revision date : 9/26/2023

Other information : None.

Full text of H-phrases	
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Safety Data Sheet (SDS), USA

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.