



## BRU-CLEAN TBC 2

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/31/2019

Revision date: 05/31/2019

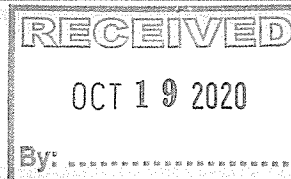
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## SECTION 1: Identification

### Identification

Product form : Mixture  
Product name : BRU-CLEAN TBC 2  
Product code : 161054



### Recommended use and restrictions on use

Recommended use : Disinfectant

### Supplier

Brulin & Company, Inc.  
P.O. Box 270  
Indianapolis, IN 46206 - USA  
T 1.317.923.3211 - F 1.317.925.4596

### Emergency telephone number

Emergency number : CHEMTREC 1.800.424.9300 or CHEMTREC International: 1.703.527.3887

## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

#### GHS-US classification

Acute toxicity (oral) Category 4	Harmful if swallowed
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 1	Causes serious eye damage
Specific target organ toxicity (single exposure) Category 3	May cause respiratory irritation
Hazardous to the aquatic environment - Acute	Very toxic to aquatic life
Hazard Category 1	
Hazardous to the aquatic environment - Chronic Hazard Category 1	Very toxic to aquatic life with long lasting effects

### GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US):

Danger

Hazard statements (GHS US):

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
May cause respiratory irritation  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS US)

Prevention:

Do not breathe dust. Wear protective gloves, eye protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER

### Other hazards which do not result in classification

No additional information available

### Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

Name	Product identifier	Weight (%)
troclosene sodium	(CAS-No.) 2893-78-9	50 - 60
adipic acid	(CAS-No.) 124-04-9	10 - 20
sodium dodecylbenzenesulfonate	(CAS-No.) 25155-30-0	10 - 20
sodium carbonate	(CAS-No.) 497-19-8	1 - 5

## SECTION 4: First-aid measures

### Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Irritation.
- Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

### Specific hazards arising from the chemical

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

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

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

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

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.

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".

#### Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.  
Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### Precautions for safe handling

Precautions for safe handling : Work in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

troclosene sodium (2893-78-9)		
Not applicable		
sodium carbonate (497-19-8)		
Not applicable		
adipic acid (124-04-9)		
ACGIH	Local name	Adipic acid
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; ANS impair
ACGIH	Regulatory reference	ACGIH 2019
sodium dodecylbenzenesulfonate (25155-30-0)		
Not applicable		

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### Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

- Physical state : Solid  
Appearance : Tablets.  
: white  
: chlorine-like  
Odor threshold : No data available  
pH : No data available  
pH solution : 5.5 (at use dilution)  
Melting point : No data available  
Freezing point : Not applicable  
Boiling point : No data available  
Flash point : Not applicable  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : Non flammable.  
Vapor pressure : No Applicable  
Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Solubility : Soluble in water.  
Log Pow : No data available  
Auto-ignition temperature : Not applicable  
Decomposition temperature : 225 - 250 °C  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosion limits : Not applicable  
Explosive properties : No data available  
Oxidizing properties : No data available

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### SECTION 10: Stability and reactivity

#### Reactivity

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

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### Incompatible materials

No additional information available

#### 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 (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	>2,000 mg/kg body weight
ATE US (gases)	>20,000 ppm/4h
ATE US (vapors)	>20 mg/l/4h
ATE US (dust, mist)	>5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

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### SECTION 12: Ecological information

#### Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects. Before neutralization, the product may represent a danger to aquatic organisms. Very toxic to aquatic life.

#### Persistence and degradability

troclosene sodium (2893-78-9)	
Persistence and degradability	Readily biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.

sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

adipic acid (124-04-9)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.598 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.38 g O <sub>2</sub> /g substance
ThOD	1.423 g O <sub>2</sub> /g substance

sodium dodecylbenzenesulfonate (25155-30-0)	
Persistence and degradability	Readily biodegradable in water.

#### Bioaccumulative potential

troclosene sodium (2893-78-9)	
Log Pow	-0.0556 (QSAR, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.

sodium carbonate (497-19-8)	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

adipic acid (124-04-9)	
Log Pow	0.093 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

sodium dodecylbenzenesulfonate (25155-30-0)	
BCF fish 1	130 (Equivalent or similar to OECD 305, 3 day(s), Leuciscus idus, Semi-static system, Fresh water, Experimental value)

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Log Pow	1.96 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### Mobility in soil

<b>troclosene sodium (2893-78-9)</b>	
Log Koc	1.7 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.
<b>sodium carbonate (497-19-8)</b>	
Ecology - soil	Low potential for adsorption in soil.
<b>adipic acid (124-04-9)</b>	
Ecology - soil	No (test) data on mobility of the substance available.
<b>sodium dodecylbenzenesulfonate (25155-30-0)</b>	
Surface tension	29.3 - 31.8 mN/m (25 °C)
Log Koc	3.96 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.

### Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### Disposal methods

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

## SECTION 14: Transport information

### US - DOT

Proper Shipping Name (DOT) : Environmentally hazardous substances, solid, n.o.s.  
UN-No.(DOT) : UN3077  
Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140  
Packing group (DOT) : III - Minor Danger  
Hazard labels (DOT) : Class 9 (Miscellaneous dangerous materials)  
Dangerous for the environment : Yes

### International shipping – IMDG

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
UN-No. (IMDG) : 3077  
Class (IMDG) : Miscellaneous dangerous substances and articles  
Marine pollutant : Yes

### International – IATA

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.  
UN-No. (IATA) : 3077  
Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

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Class (IATA) : 9 - Miscellaneous Dangerous Goods  
Packing group (IATA) : III - Minor Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### **troclosene sodium (2893-78-9)**

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

##### **sodium carbonate (497-19-8)**

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

##### **adipic acid (124-04-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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##### **sodium dodecylbenzenesulfonate (25155-30-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	1000 lb
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#### 15.2. International regulations

##### CANADA

##### **troclosene sodium (2893-78-9)**

Listed on the Canadian DSL (Domestic Substances List)

##### **sodium carbonate (497-19-8)**

Listed on the Canadian DSL (Domestic Substances List)

##### **adipic acid (124-04-9)**

Listed on the Canadian DSL (Domestic Substances List)

##### **sodium dodecylbenzenesulfonate (25155-30-0)**

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### **sodium carbonate (497-19-8)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### National regulations

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### sodium carbonate (497-19-8)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
troclosene sodium(2893-78-9)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
adipic acid(124-04-9)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
sodium dodecylbenzenesulfonate(25155-30-0)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

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*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.*