BRUTAB 6S

Safety Data Sheet

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

Revision date: 08/28/2020 Version: 10.1

SECTION 1: Identification

Identification

Product form : Mixture

Product name : BRUTAB 6S

Product code : 161037; 161021; 161034

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
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
Specific target organ toxicity (single exposure) Category 3	May cause respiratory irritation
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): Warning

Hazard statements (GHS US):

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

Precautionary statements (GHS US)

Prevention: Avoid breathing dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in a well-ventilated area. Avoid release to the environment.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. 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 advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor. IF SWALLOWED: rinse

	mouth. Do NOT induce vomiting. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Other hazards which do not result in classification

Other hazards not contributing to the classification : Contact with acids liberates toxic gas.

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Name	Product identifier	Weight (%)
troclosene sodium	(CAS-No.) 2893-78-9	40 - 50
adipic acid	(CAS-No.) 124-04-9	10 - 20
SODIUM CARBONATE	(CAS-No.) 497-19-8	5 - 10

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.

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.

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 eye contact : Eye irritation.

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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

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 : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Use only in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.

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

SECTION 8: Exposure controls/personal protection

Control parameters

BRUTAB 6S		
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

troclosene sodium (2893-78-9)
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 CARBONATE (497-19-8)
Not applicable

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

Personal protective equipment:

Always use job-specific risk assessment approach to determine the personal protection equipment needed for each situation. Such risk assessment should consider product hazard, exposure level, and user susceptibilities.

Hand protection:

Wear rubber gloves or Latex gloves

Eye protection:

If a risk assessment indicates this is necessary, safety glasses are recommended.

Respiratory protection:

Engineering controls (general and local ventilations) are preferred means for mitigating chemical exposures. . If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. . Where inhalation exposure to mist, fog, sprays or splashes may occur but not exceeding the exposure limits, protections consistent with the job-specific risk assessment are recommended.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Tablets.
	:	white
	:	slight chlorine-like
Odor threshold	:	No data available
pH	:	No data available
pH solution	:	5.5 - 6.5 when diluted
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	not applicable
Flash point	:	not applicable
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	:	Water: 100 %
Log Pow	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available
VOC content	:	0 % Less Exempts and Water

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)	1823 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 : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

BRUTAB 6S	
IARC group	Not listed

National Toxicity Program (NTP) Status	Not listed

Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after eye contact : Eye irritation.

SECTION 12: Ecological information

Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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.

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_2/g substance
Chemical oxygen demand (COD)	1.38 g O_2/g substance
ThOD	1.423 g O_2/g substance

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)

Bioaccumulative potential

troclosene sodium (2893-78-9)	
Log Pow	-0.0556 (QSAR, KOWWIN)
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 CARBONATE (497-19-8)	
Log Pow	-6.19 (Estimated value)

Bioaccumulative potential	Not bioaccumulative.

Mobility in soil

troclosene sodium (2893-78-9)	
Log Koc	1.7 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.
adipic acid (124-04-9)	
Ecology - soil	No (test)data on mobility of the substance available.
SODIUM CARBONATE (497-19-8)	
Ecology - soil	Low potential for adsorption in soil.

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. 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. (Troclosene Sodium)
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. (Troclosene Sodium)
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. (Troclosene Sodium)
UN-No. (IATA) : 3077
Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.
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

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

SODIUM CARBONATE (497-19-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

FIFRA Labelling	
EPA Registration Number	71847-6-106
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	

15.2. International regulations

CANADA

troclosene sodium (2893-78-9)
Listed on the Canadian DSL (Domestic Substances List)

adipic acid (124-04-9)
Listed on the Canadian DSL (Domestic Substances List)

SODIUM CARBONATE (497-19-8)
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

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 KECL/KECI (Korean Existing Chemicals Inventory) 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

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

SECTION 16: Other information

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

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Revision date : 08/28/2020

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.