

Issue Date 28-Aug-2015

Revision Date 21-Sept-2023

Version 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name PurTabs Sanitizing & Disinfection Tablets

Other means of identification

UN/ID No. 3077

Recommended use of the chemical and restrictions on use

Recommended Use As indicated on US EPA master label, 71847-6, see enclosed.
Uses advised against As indicated on US EPA master label, 71847-6, see enclosed.

Details of the supplier of the safety data sheet

Supplier Address
 Earthsafe Chemical Alternatives, LLC.
 145 Wood Road
 Braintree, MA 02184

Emergency telephone number

Company Phone Number (781) 752-1215
24 Hour Emergency Phone Number POISON CONTROL CENTER AT
 1-800-222-1222

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Classified

Serious Eye Damage/Eye Irritation	Category 2A
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Physical Hazards


Not classified.

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200, Revision 3).

Label elements

Emergency Overview

<p>Warning</p> <p>Hazard Statements Causes serious eye irritation.</p> 	<p>Appearance White/off white tablet</p>	<p>Physical state Solid</p>	<p>Odor Slight chlorine</p>
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Precautionary Statements - Prevention

Wash face, hands, and any exposed skin thoroughly after handling.

Precautionary Statements - Response

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 attention.

Hazards not otherwise classified (HNOC)

Not available.

Other information

May be harmful if swallowed May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200; Revision 3).

Synonyms Klorsept, Bleach Tablet, Brutabs 6S

Chemical name	CAS No	Weight-%
Sodium-dichloro-s-triazinetriene	2893-78-9	30-65
Adipic Acid	124-04-9	10-35
Sodium Bicarbonate, USP	144-55-8	10-35
Sodium carbonate	497-19-8	2-12

The composition percentage of this product is proprietary and hence has been represented as range.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.
Skin Contact	In case of contact, remove contaminated clothing. Immediately flush skin with copious amounts of water for at least 15 minutes. Obtain medical attention if skin reaction occurs.
Inhalation	Immediately move exposed subject to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, administer oxygen. Seek medical attention immediately.
Ingestion	In case of accidental ingestion, wash out mouth with copious amounts of water. Seek medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Not available.

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water.

Unsuitable Extinguishing Media Do not use dry chemicals, carbon dioxide or halogenated extinguishers since there is potential for a violent reaction.

Specific hazards arising from the chemical

Formation of toxic gases is possible during heating or fire. Wet material may generate nitrogen trichloride, an explosion hazard.

Hazardous Combustion Products Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

Explosion data

Sensitivity to Mechanical Impact Not available.

Sensitivity to Static Discharge Not available.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8 and follow handling guidance appropriate for the compound (see Section 7). Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions

Environmental Precautions See Section 12 for additional ecological information. Prevent entry into waterways, sewers, surface drainage systems or wildlife water supply.

Methods and material for containment and cleaning up

Methods for Containment Contain the source of spill. Collect spilled material in a way that controls dust generation.

Methods for Cleaning Up Sweep and shovel the solid product into a container avoiding dust formation. Close and label thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust/mists. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where vapor is formed. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry, cool, and well-ventilated place.

Incompatible materials Strong acids and/or alkaline. Reducing agents. Combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, contains the following hazardous material(s) with occupational exposure limits established by the region-specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic Acid 124-04-9	TWA: 5 mg/m ³	-	-

Appropriate engineering controls

Engineering Controls The health hazard risks of handling this material are dependent on factors, such as physical form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

Individual protection measures, such as personal protective equipment

Eye/Face Protection In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full-face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information. It is recommended that an eyewash station should be located in the vicinity of the occupational setting in order to provide immediate access to emergency decontamination in case of accidental eye exposure.

Skin and Body Protection In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hoods, or head coverings may be necessary. Contact a health and safety professional for specific information. It is recommended that a safety shower should be located in the vicinity of the occupational setting in order to provide immediate access to emergency decontamination in case of accidental skin/body exposure.

Respiratory Protection Not required for normal handling of packed product. Respirators/ PAPR may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134.

General Hygiene Considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Slight chlorine
Appearance	White/off white tablet	Odor Threshold	Not available.
Color	White to off-white		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	5-7	
Melting Point/Freezing Point	Not available.	
Boiling Point/Boiling Range	Not available.	
Flash Point	Not available.	

Evaporation Rate	Not available.
Flammability (solid, gas)	Not available.
Flammability Limit in Air	
Upper Flammability Limit:	Not available.
Lower Flammability Limit:	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Specific Gravity	Not available.
Water Solubility	Completely soluble.
Solubility in Other Solvents	Not available.
Partition Coefficient	0
Autoignition Temperature	Not available.
Hyphen	225-250°C
Kinematic Viscosity	Not available.
Dynamic Viscosity	Not available.
Explosive Properties	Not available.
Oxidizing Properties	Not available.

Other information

Softening Point	Not available.
Molecular Weight	Not available.
VOC Content (%)	Not available.
Density	1.0
Bulk Density	Not available.

10. STABILITY AND REACTIVITY

Reactivity

Reactive to strong acids, alkaline, and reducing agents.

Chemical stability

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions

Reacts with strong acids and/or alkaline, reducing agents and combustible material.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.

Incompatible materials

Strong acids and/or alkaline. Reducing agents. Combustible material.

Hazardous decomposition products

Chlorine, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon, Phosgene.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Sodium-dichloro-s-triazinetrione 2893-78-9	= 1823 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	0.27 - 1.17 mg/L (Rat) 4 h	-
Adipic Acid 124-04-9	> 11000 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	> 7700 mg/m ³ (Rat) 4 h	-
Sodium Bicarbonate, USP 144-55-8	= 4220 mg/kg (Rat)	-	-	-

Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-	-
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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Not available.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Skin Corrosion/Irritation Not a skin irritant.

Serious Eye Damage/Eye Irritation Irritating to Eyes.

Sensitization Not a potential sensitizer.

Germ Cell Mutagenicity This product does not contain any ingredient that is tested positive for genotoxicity by Ames tests in 5 salmonella strains and 1 E. coli strain with or without rat microsomal activation.

Carcinogenicity This product is not listed by ACGIH, IARC, NTP or USOSHA.

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Teratogenicity This product does not contain any known or suspected developmental hazards.

STOT - Single Exposure Not available.

STOT - Repeated Exposure Not available.

Aspiration Hazard Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium-dichloro-s-triazinetri one 2893-78-9	-	0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
Adipic Acid 124-04-9	31.3: 72 h Desmodesmus subspicatus mg/L EC50 26.6: 96 h Desmodesmus subspicatus mg/L EC50	97: 96 h Pimephales promelas mg/L LC50 static	-	85.7: 48 h Daphnia magna mg/L EC50
Sodium Bicarbonate, USP 144-55-8	-	8250 - 9000: 96 h Lepomis macrochirus mg/L LC50 static	-	2350: 48 h Daphnia magna mg/L EC50
Sodium carbonate 497-19-8	-	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	-	265: 48 h Daphnia magna mg/L EC50

Persistence and degradability

The product is biodegradable.

Bioaccumulation

This product does not bioaccumulate.

Chemical name	Partition coefficient
Adipic Acid 124-04-9	0.081

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

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

California Hazardous Waste Codes Not applicable.

This product contains the following substance that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Sodium carbonate 497-19-8	Corrosive

14. TRANSPORT INFORMATION

Note: Environmentally hazardous substances, solid, n.o.s, (UN3077) may be transported within USA not subject to DOT requirements of 49CFR172 - reference 49 CFR 172.101 (table) and 172.102 (special provision 335).

Environmentally hazardous substances, solid, n.o.s, (UN3077) shipped to and from USA via IATA/ADR may not require hazardous goods labeling/documentation – reference IATA Special Provision A197 and ADR Special Provision 375 of 2015 UN Model Regulations.

DOT

UN/ID No.

Regulated.

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Transport hazard class(es)

9 - Miscellaneous Dangerous Substances and Articles

Packing Group

III

Special Provisions

49 CFR 172.101 (table) and 172.102 (special provision 335).

Marine pollutant

Environmentally hazardous substance.

IATA

UN number or ID number

Regulated.

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Transport hazard class(es)

9 - Miscellaneous Dangerous Substances and articles

Packing group

III

Special Provisions

IATA Special Provision A197

ADR

UN number or ID number

Regulated.

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Transport hazard class(es)

9 - Miscellaneous Dangerous Substances and Articles

Packing Group	III
Classification code	M7
Special Provisions	Special Provision 375 of 2015 UN Model Regulations

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This product is not listed by CERCLA, but as supplied, contains the following substance(s) regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Adipic Acid 124-04-9	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium-dichloro-s-triazinetrione 2893-78-9	X		X
Adipic Acid 124-04-9	X		X

U.S. EPA Label/FIFRA Information

EPA Pesticide Registration Number 71847-6-91524

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:

DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through skin.

Do not get in eyes, on skin, or clothing. Avoid breathing dust. Wear chemical-resistant gloves and safety glasses or face shield when making up solution. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse

16. OTHER INFORMATION

HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

- 0 = Minimal Hazard
- 1 = Slight Hazard
- 2 = Moderate Hazard
- 3 = Serious Hazard
- 4 = Severe Hazard

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Revision Date 21-Sept-2023
Revision Note Section 8 updated to add some additional detail re measures if contact with eye/skin and Section 15 updated to add information re FIFRA hazard requirements.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet