

# SAFETY DATA SHEET



Revision date: 13-Aug-2015

Version: 3.2

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### Product Identifier

**Material Name:** INOVOTABS

**Trade Name:** INOVOTABS

**Chemical Family:** Mixture

**Registration Number:** EPA registration no.: 71847-3-1007

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Intended Use:** Veterinary product used as disinfectant

**Restrictions on Use:** Not for human use

### Details of the Supplier of the Safety Data Sheet

Zoetis Inc.  
100 Campus Drive, P.O. Box 651  
Florham Park, New Jersey 07932 (USA)  
Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896  
Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A.  
Mercuriusstraat 20  
1930 Zaventem  
Belgium

**Emergency telephone number:**  
**CHEMTREC (24 hours):** 1-800-424-9300  
**Contact E-Mail:** VMIPSrecords@zoetis.com

**Emergency telephone number:**  
**International CHEMTREC (24 hours):** +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Appearance:** White to off-white tablet

### Classification of the Substance or Mixture

#### GHS - Classification

Serious Eye Damage/Eye Irritation: Category 2A

Specific target organ systemic toxicity (single exposure): Category 3

Acute aquatic toxicity: Category 1

Chronic aquatic toxicity: Category 1

### Label Elements

**Signal Word:** Warning

**Hazard Statements:**  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H410 - Very toxic to aquatic life with long lasting effects

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### Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P220- Keep/Store away from clothing/ other combustible materials  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P264 - Wash hands thoroughly after handling  
P273 - Avoid release to the environment  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTRE/doctor/physician if you feel unwell  
P391 - Collect spillage  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with all local and national regulations

### Supplemental Hazards:

EUH031 - Contact with acids liberates toxic gas



### Other Hazards

#### Short Term:

Can cause eye irritation . Signs and symptoms might include redness, swelling, blurred vision or pain. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Inhalation of dust, mist or vapors may cause severe irritation of the respiratory tract with coughing, choking, pain, and possibly burns of the mucous membranes. Based on components, ingestion may result in gastrointestinal irritation, burns of the mouth, throat, and stomach, vomiting, diarrhea, and stomach pain.

#### Long Term:

May cause effects on cardiovascular system , bladder , kidneys

### Australian Hazard Classification (NOHSC):

Hazardous Substance. Non-Dangerous Goods.

### Note:

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Sodium Dichloroisocyanurate	2893-78-9	220-767-7	Acute Tox. 4 (H302) STOT SE 3 (H335) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Ox. Sol. 2 (H272) Eye Irrit. 2 (H319)	41.07
Sodium carbonate	497-19-8	207-838-8	Eye Irrit. 2 (H319)	<50
Adipic Acid	124-04-9	204-673-3	Eye Irrit. 2 (H319)	<50

**Additional Information:** Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

- Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
- Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
- Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
- Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

#### Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
- Medical Conditions Aggravated by Exposure:** None known

#### Indication of the Immediate Medical Attention and Special Treatment Needed

- Notes to Physician:** None

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Do not attempt to extinguish the fire without a self-contained breathing apparatus. Do not let the fire burn. Flood with copious amounts of water. Do not use dry chemicals, carbon dioxide or halogenated extinguishers since there is potential for a violent reaction.

#### Special Hazards Arising from the Substance or Mixture

- Hazardous Combustion Products:** Formation of toxic gases is possible during heating or fire. Thermal decomposition or combustion products may include chlorine, nitrogen, nitrogen trichloride, cyanogens chloride, oxides of carbon, phosgene.
- Fire / Explosion Hazards:** Negligible fire hazard. If heated by outside source to temperatures above 240°C (464°F), this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

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### Advice for Fire-Fighters

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Dike and collect water used to fight fire.

### Additional Information:

Toxic or corrosive gases are expected from fires involving this material.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Avoid dust formation. Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

### Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

#### Measures for Cleaning / Collecting:

Contain the source of the spill if it is safe to do so. Avoid generating airborne dust. Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean contaminated surface thoroughly.

#### Additional Consideration for Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not generate airborne dust or expose to ignition sources. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

### Conditions for Safe Storage, Including any Incompatibilities

#### Storage Conditions:

Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat, light and moisture. Keep away from contact with water. Do not store with combustible or incompatible materials. Keep out of reach of children.

#### Storage Temperature:

< 25 °C

#### Incompatible Materials:

Reacts with water and acids, combustible materials, alkalis, Reducing agents, organic materials

#### Specific end use(s):

Veterinary product used as disinfectant

#### Additional Information:

Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. Vapour space in a closed container may contain a slight amount of chlorine gas and other chlorine containing compounds from decomposition of the product. Exposure to chlorine gas may cause burning of the eyes, burning of the nose and mouth and irritation of the linings of the respiratory tract with coughing, a choking sensation, substernal pain, vomiting, nausea, headache, dizziness and fainting.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Sodium carbonate

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Czech Republic OEL - TWA	5 mg/m <sup>3</sup>
Romania OEL - TWA	1 mg/m <sup>3</sup>

**Adipic Acid**

ACGIH Threshold Limit Value (TWA)	5 mg/m <sup>3</sup>
Belgium OEL - TWA	5 mg/m <sup>3</sup>
Denmark OEL - TWA	5 mg/m <sup>3</sup>
Finland OEL - TWA	5 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 mg/m <sup>3</sup>
Latvia OEL - TWA	4 mg/m <sup>3</sup>
Lithuania OEL - TWA	4 mg/m <sup>3</sup>
Poland OEL - TWA	5 mg/m <sup>3</sup>
Portugal OEL - TWA	5 mg/m <sup>3</sup>
Spain OEL - TWA	5 mg/m <sup>3</sup>

**Exposure Controls**

<b>Engineering Controls:</b>	Engineering controls should be used as the primary means to control exposures. Keep airborne contamination levels below the exposure limits listed above in this section.
<b>Personal Protective Equipment:</b>	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
<b>Hands:</b>	Wear impervious gloves if skin contact is possible.
<b>Eyes:</b>	Face shield or goggles
<b>Skin:</b>	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
<b>Respiratory protection:</b>	Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Tablet	<b>Color:</b>	White to off-white
<b>Odor:</b>	Slight chlorine	<b>Odor Threshold:</b>	No data available.
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture

<b>Solvent Solubility:</b>	No data available
<b>Water Solubility:</b>	No data available
<b>Solubility:</b>	Soluble: Water
<b>pH:</b>	6.5 - 7.5
<b>Melting/Freezing Point (°C):</b>	No data available
<b>Boiling Point (°C):</b>	No data available.
<b>Partition Coefficient: (Method, pH, Endpoint, Value)</b>	
No data available	
<b>Decomposition Temperature (°C):</b>	225 - 250
<b>Evaporation Rate (Gram/s):</b>	No data available
<b>Vapor Pressure (kPa):</b>	No data available
<b>Vapor Density (g/ml):</b>	No data available
<b>Relative Density:</b>	No data available
<b>Viscosity:</b>	No data available

<b>Flammability:</b>	
<b>Autoignition Temperature (Solid) (°C):</b>	No data available

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<b>Burning Class (solid) at Ambient Temperature:</b>	Not an oxidizing solid: (Burn time > 3:7 potassium bromate and cellulose reference mixture)
<b>Flammability (Solids):</b>	No data available
<b>Flash Point (Liquid) (°C):</b>	No data available
<b>Upper Explosive Limits (Liquid) (% by Vol.):</b>	No data available
<b>Lower Explosive Limits (Liquid) (% by Vol.):</b>	No data available
<b>Polymerization:</b>	Will not occur
<b>Flammability (Solid, Gas):</b>	Not flammable

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Possibility of Hazardous Reactions</b>	
<b>Oxidizing Properties:</b>	Not an oxidizing solid.
<b>Conditions to Avoid:</b>	Avoid moisture, heat, flames, sparks, and other sources of ignition. combustible material
<b>Incompatible Materials:</b>	Reacts with water and acids , combustible materials , alkalies , Reducing agents , organic materials
<b>Hazardous Decomposition Products:</b>	Oxygen . Chlorine, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon, Phosgene.

### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

**General Information:** The information in this section describes the potential hazards of the individual ingredients and the formulation. Toxicological properties of the formulation have not been fully investigated.  
Routes of exposure: eye contact , skin contact , inhalation

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### Sodium Dichloroisocyanurate

Rat Oral LD50 1500 mg/kg  
Rat Dermal LD50 > 10000mg/kg

##### Sodium carbonate

Rat Oral LD50 4090 mg/kg

##### Adipic Acid

Rat Oral LD50 > 11000 mg/kg  
Mouse Oral LD50 1900mg/kg

**Acute Toxicity Comments:** A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

**Inhalation Acute Toxicity** May cause respiratory tract and mucous membrane irritation

#### Irritation / Sensitization: (Study Type, Species, Severity)

##### Sodium carbonate

Eye Irritation Rabbit Severe  
Skin Irritation Rabbit Mild

##### Adipic Acid

Eye Irritation Rabbit Moderate

**Irritation / Sensitization Comments:** May cause eye irritation

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### 11. TOXICOLOGICAL INFORMATION

#### Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

##### **Adipic Acid**

*In Vitro* Bacterial Mutagenicity (Ames) *Salmonella* Negative  
Dominant Lethal Assay Negative

#### Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

##### **Adipic Acid**

2 Year(s) Rat Oral 3750 mg/kg/day NOAEL Not carcinogenic

#### Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

#### Product Level Toxicity Data

##### Acute toxicity

Species	Route	End Point	Dose
Rat	Oral	LD50	>2000 mg/kg

**Acute Toxicity Comments:** A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

### 12. ECOLOGICAL INFORMATION

#### **Environmental Overview:**

Environmental properties of the formulation have not been investigated. The following information is available for the individual ingredients. The active ingredient in this formulation is Very toxic to aquatic organisms. May have long-term effects on the aquatic environment. Releases to the environment should be avoided.

#### **Toxicity:**

##### Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

##### **Sodium Dichloroisocyanurate**

*Oncorhynchus mykiss* (Rainbow Trout) LC50 96 Hours 0.290 mg/L  
*Daphnia magna* (Water Flea) EC50 48 Hours 0.150 mg/L  
*Lepomis macrochirus* (Bluegill Sunfish) LC50 96 Hours 0.43 ppm

##### **Adipic Acid**

*Oncorhynchus mykiss* (Rainbow Trout) LC50 96 Hours 100 mg/L  
*Pimephales promelas* (Fathead Minnow) LC50 96 Hours 97 mg/L  
*Daphnia Magna* (Water Flea) EC50 48 Hours 85.7 mg/L  
*Scenedesmus subspicatus* (Green Alga) EC50 72 Hours 31.3 mg/L

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

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### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:**

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. When exposed to moisture, this material will liberate oxygen gas which can cause a fire.

### 14. TRANSPORT INFORMATION

As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

<b>UN number:</b>	UN 3077
<b>UN proper shipping name:</b>	Environmentally Hazardous Substance, Solid, n.o.s (trosclosene sodium)
<b>Transport hazard class(es):</b>	9
<b>Packing group:</b>	III
<b>Environmental Hazard(s):</b>	Marine Pollutant

Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

**DOT / ANTT: Not regulated for transportation**

U.S. DOT Reportable Quantity (RQ), 49 CFR 172.101 Appendix A:

**Adipic Acid**

<b>CERCLA/SARA Hazardous Substances and their Reportable Quantities:</b>	5000 lb 2270 kg
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### 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**Canada - WHMIS: Classifications**

**WHMIS hazard class:**

Class D, Division 2, and Subdivision B.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

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### 15. REGULATORY INFORMATION



#### Sodium Dichloroisocyanurate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	220-767-7

#### Sodium carbonate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	207-838-8

#### Adipic Acid

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	5000 lb 2270 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	204-673-3

### 16. OTHER INFORMATION

#### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Oxidizing solids-Cat.2; H272 - May intensify fire; oxidizer  
Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed  
Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation  
Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation  
Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life  
Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

**Data Sources:** The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

**Reasons for Revision:** Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 6 - Accidental Release Measures. Updated Section 11 - Toxicology Information. Updated Section 14 - Transport Information.

**Prepared by:** Toxicology and Hazard Communication  
Zoetis Global Risk Management

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Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**