SAFETY DATA SHEET



1. Identification

Product identifier	INOVOTABS			
Other means of identification				
Synonyms	Sodium dichloroisocyanurate tablet			
Recommended use	Veterinary product used as disinfectant			
Recommended restrictions	Not for human use			
Manufacturer/Importer/Supplier/	Distributor information			
Company Name (USA)	Zoetis Inc.			
	10 Sylvan Way			
	Parsippany, New Jersey 07054 (USA)			
Rocky Mountain Poison & Drug Safety	1-866-531-8896			
Product Support/Technical Services	1-888-963-8471			
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300			
	International CHEMTREC (24 hours): +1-703-	527-3887		
Company Name (CA)	Zoetis Canada Inc.			
	16740 Trans-Canada Highway			
	Kirkland, Quebec, H9H 4M7			
Emergency telephone number	CHEMTREC (24 hours): 1-800-424-9300			
Contact E-Mail	productsupport@zoetis.com			
Product Support	1-800-461-0917			
	All Safety Data Sheets are available via our Zo https://www.zoetis.ca/sds/sds.aspx	oetis Canada website at		
Supplier	Not available.			
2. Hazard identification				
Physical hazards	Not classified.			
Health hazards	Acute toxicity, dermal	Category 4		
	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation	Category 1		
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1		
	Hazardous to the aquatic environment, long-term hazard	Category 1		
Label elements				
Signal word	Danger			

Hazard statement

Harmful in contact with skin. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Prevention	Avoid breathing dust/fume/gas/mist/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
upplemental information	None.
other hazards	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium Dichloroisocyanurate		2893-78-9	40 - 50
Adipic Acid		124-04-9	10 - 20
Sodium carbonate		497-19-8	10 - 20

Socium carbonate	497-19-0 10 - 20
All concentrations are in percent b	y weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Composition comments	Other components below reportable levels The exact percentage composition of this mixture has been withheld as a trade secret.
4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconsious person.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. May cause respiratory irritation. 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. Prolonged exposure may cause chronic effects. May cause effects on cardiovascular system, bladder, kidneys.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

v. Accidental release meas	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Ventilate the contaminated area. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Wear appropriate protective equipment and clothing during clean-up. Remove sources of ignition. Ensure adequate ventilation. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Use only with adequate ventilation. Minimise dust generation and accumulation. Do not breathe dust. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Use appropriate container to avoid environmental contamination.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Do not store near acids. Store away from incompatible materials (see Section 10 of the SDS). Store below 25°C

8. Exposure controls/personal protection

Components	Туре	Value
Adipic Acid (CAS 124-04-9)	TWA	5 mg/m3
Canada. Alberta OELs (Occupatior	nal Health & Safety Code, Sc	hedule 1, Table 2), as amended
Components	Туре	Value
Adipic Acid (CAS 124-04-9)	TWA	5 mg/m3
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		ts for Chemical Substances, Occupational Health and
Components	Туре	Value
Adipic Acid (CAS 124-04-9)	TWA	5 mg/m3
	2006, The Workplace Safety Type	And Health Act), as amended Value
Components		
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th	Type TWA reshold Limit Values (TLVs)	Value
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu	Type TWA reshold Limit Values (TLVs)	Value 5 mg/m3
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu Components	Type TWA reshold Limit Values (TLVs) lation 91-191)	Value 5 mg/m3 Based on the 1991 and 1997 ACGIH TLVs and BEIs
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu Components Adipic Acid (CAS 124-04-9)	Type TWA reshold Limit Values (TLVs) lation 91-191) Type TWA	Value 5 mg/m3 Based on the 1991 and 1997 ACGIH TLVs and BEIs Value 5 mg/m3
Canada. Manitoba OELs (Reg. 217) Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu Components Adipic Acid (CAS 124-04-9) Canada. Ontario OELs. (Control of Components	Type TWA reshold Limit Values (TLVs) lation 91-191) Type TWA	Value 5 mg/m3 Based on the 1991 and 1997 ACGIH TLVs and BEIs Value 5 mg/m3
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu Components Adipic Acid (CAS 124-04-9) Canada. Ontario OELs. (Control of	Type TWA reshold Limit Values (TLVs) lation 91-191) Type TWA Exposure to Biological or C	Value 5 mg/m3 Based on the 1991 and 1997 ACGIH TLVs and BEIs Value 5 mg/m3 hemical Agents), as amended
Components Adipic Acid (CAS 124-04-9) Canada. New Brunswick OELs: Th Publication (New Brunswick Regu Components Adipic Acid (CAS 124-04-9) Canada. Ontario OELs. (Control of Components Adipic Acid (CAS 124-04-9)	Type TWA reshold Limit Values (TLVs) lation 91-191) Type TWA Exposure to Biological or C Type TWA	Value 5 mg/m3 Based on the 1991 and 1997 ACGIH TLVs and BEIs Value 5 mg/m3 hemical Agents), as amended Value

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended Components Type Value

Components	Туре	Value
Adipic Acid (CAS 124-04-9)	15 minute	10 mg/m3
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).
Control banding approach	Not available.	
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. 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 to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.	
Individual protection measures,	such as personal protective equipme	ent
Eye/face protection	If contact is likely, safety glasses with	side shields are recommended.
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin cont with drug product is possible and for bulk processing operations.	
Other	Wear appropriate chemical resistant clothing. Wear impervious protective clothing to prevent contact - consider use of disposable clothing where appropriate.	
Respiratory protection	should be provided in instances when	r suitable respiratory equipment. Respiratory protection e exposure to dust, mists, aerosols or vapors are likely. If the nit (OEL) is exceeded, wear an appropriate respirator with a xposures to below the OEL.
Thermal hazards	Not applicable.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the materia and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	Tablet.
Physical state	Solid.
Form	Solid.
Colour	White to off-white
Odour	Slight chlorine.
Odour threshold	Not available.
рН	≥ 6.5 - ≤ 7.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Log Kow = 0
Auto-ignition temperature	Not available.
Burning Class	Not an oxidizing solid: (Burn time > 3:7 potassium bromate and cellulose reference mixture)
Decomposition temperature	> 225 - < 250 °C (> 437 - < 482 °F)
Viscosity	Not available.

Material name: INOVOTABS

Version #: 01 Issue date: 15-November-2023

Other information	N / 1 ·	
Explosive properties	Not explosive.	
Flammability (Heat of combustion)	Not flammable	
Oxidising properties	Not oxidising.	
10. Stability and reactivity	,	
Reactivity	The product is stable and non	-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under norma	al conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.	
Conditions to avoid	Contact with incompatible materials. Avoid conditions which create dust. Minimize generating airborne mists and vapors. Avoid temperatures exceeding the decomposition temperature. Keep away from heat, sparks, flame and all other sources of ignition.	
Incompatible materials	Strong oxidising agents. Acids.	
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Thermal decomposition or combustion products may include chlorine, nitrogen, nitrogen trichloride, cyanogens chloride, oxides of carbon, phosgene.	
11. Toxicological informat	tion	
Information on likely routes of e	exposure	
Inhalation	May cause irritation to the res	piratory system. Prolonged inhalation may be harmful.
Skin contact	Harmful in contact with skin. C	Causes skin irritation.
Sodium carbonate	Species: Rabbit Severity: Mild	
Eye contact	Causes serious eye damage.	
Adipic Acid	Species: Rabbit Severity: Moderate	
Sodium carbonate	Species: Rabbit Severity: Severe	
Ingestion	May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. May cause respiratory irritation. 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. Prolonged exposure may cause chronic effects.	
Information on toxicological eff	ects	
Acute toxicity	In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful in contact with skin. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.	
Components	Species Test Results	
Adipic Acid (CAS 124-04-9)		
<u>Acute</u>		
Oral		
LD50	Mouse	1900 mg/kg
	Rat	> 11000 mg/kg
<u>Chronic</u>		
Oral		
NOAEL	Rat	3750 mg/kg/day, 2 years Not carcinogenic

Components	Species	Test Results
Sodium carbonate (CAS 497-19-8)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	2300 mg/m3, 2 Hours
Oral LD50	Rat	4090 mg/kg
ED30	Nat	2.8 g/kg
Sodium Dichloroisocyanurate (CA	S 2803-78-0)	2.6 g/kg
Acute	0 2000-10 0)	
Dermal		
LD50	Rabbit	> 10000 mg/kg
	Rat	> 10000 mg/kg
Oral		
LD50	Rat	1500 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye	Causes serious eye damage.	
irritation		
Eye contact Adipic Acid		Species: Rabbit
		Severity: Moderate
Sodium carbonate		Species: Rabbit Severity: Severe
Respiratory or skin sensitisation	ı	
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	This product is not expected to	o cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Mutagenicity Adipic Acid		Dominant Lethal Assay Result: Negative
		rooda rogativo
		In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella
Carcinogenicity	Based on available data, the o	classification criteria are not met.
Reproductive toxicity		o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	-	narmful. Prolonged exposure may cause chronic effects.
Further information		e and respiratory tract irritation. May cause effects on
	cardiovascular system, bladde	
12. Ecological information	1	
Ecotoxicity		ent. Very toxic to aquatic life with long lasting effects.
-		

Components		Species	Test Results
Adipic Acid (CAS 124-04-9)			
Aquatic			
Algae	EC50	Scenedesmus subspicatus (Green Alga)	31.3 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna (Water Flea)	85.7 mg/l, Hours
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	100 mg/l, 96 Hours
		Pimephales promelas(Fathead Minnow)	97 mg/l, 96 Hours
Acute	1.050		
Fish	LC50	Fathead minnow (Pimephales promelas)	97 mg/l, 96 hours
Sodium carbonate (CAS 497	'-19-8)		
Aquatic Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours
Sodium Dichloroisocyanurat		e ()	
Aquatic	C (OAO 2000-70-	3)	
Crustacea	EC50	Daphnia magna (Water Flea)	0.15 mg/l, 48 Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish)	0.43 ppm, Hours
		Oncorhynchus mykiss (rainbow trout)	0.29 mg/l, 96 Hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.15 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.29 mg/l, 96 hours
ersistence and degradability	No data availa	able for this product.	
ioaccumulative potential	No data avail	able.	
lobility in soil	No data avail	able.	
ther adverse effects		erse environmental effects (e.g. ozone dep locrine disruption, global warming potential	
3. Disposal consideration	ons		
isposal instructions	Avoid release to the environment. Do not discharge into drains, water courses or onto the ground Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. Dispose of contents/container in accordance with local/regional/national/international regulations.		
ocal disposal regulations	Dispose in ac	cordance with all applicable regulations.	
azardous waste code	The waste co disposal com	de should be assigned in discussion betwe pany.	een the user, the producer and the waste
/aste from residues / unused roducts		accordance with local regulations. Empty our second and its container must be	
ontaminated packaging	Since emptied emptied.	d containers may retain product residue, fo	llow label warnings even after container is
4. Transport information	ı		
DG			

TDG UN number UN3077 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium Dichloroisocyanurate) Transport hazard class(es) 9 Class 9 Subsidiary risk Packing group III

Environmental hazards Special precautions for user IATA	E3 Read safety instructions, SDS and emergency procedures before handling.
UN number UN proper shipping name Transport hazard class(es)	UN3077 Environmentally hazardous substance, solid, n.o.s. (Sodium Dichloroisocyanurate)
Class Subsidiary risk	9 -
Packing group Environmental hazards ERG Code	III Yes 9L
	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only IMDG	Allowed with restrictions.
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium Dichloroisocyanurate), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group Environmental hazards	111
	Yes
Marine pollutant EmS	F-A, S-F
	Read safety instructions, SDS and emergency procedures before handling. Not applicable.

IATA; IMDG; TDG



Marine pollutant



General information

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

15. Regulatory information

Canadian regulations

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

Controlled Drugs and Substances Act

Not regulated.

- Export Control List (CEPA 1999, Schedule 3)
- Not listed. Greenhouse Gases
 - reennouse Ga
 - Not listed.
- **Precursor Control Regulations**
 - Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable. Kyoto Protocol

Not applicable. Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	15-November-2023
Version No.	01
Disclaimer	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. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Product and Company Identification: Synonyms Composition / Information on Ingredients: Disclosure Overrides Transport Information: Proper Shipping Name/Packing Group GHS: Classification