SAFETY DATA SHEETS

This SDS packet was issued with item: 078931253

N/A

SAFETY DATA SHEET



1. Identification

Product identifier	Sileo®
Other means of identification	
Synonyms	Dexmedetomidine oromucosal gel
Recommended use	Not available.
Recommended restrictions	Not for human use
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company Name (US)	Zoetis Inc.
	100 Campus Drive, P.O. Box 651
	Florham Park, New Jersey 07932 (USA)
Rocky Mountain Poison and Drug Center	1-866-531-8896
Product Support/Technical Services	1-800-366-5288
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300
	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com
Company Name (EU)	Zoetis Belgium S.A.
	Mercuriusstraat 20
	1930 Zaventem
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	VMIPSrecords@zoetis.com
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	Caution - Pharmaceutical agent. Alpha2-adrenoreceptor agonist. The active ingredient in this product produces sedation and analgesia. May cause drowsiness and dizziness. May cause decreases in blood pressure and other cardiac effects. May cause adverse effects on the developing fetus.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dexmedetomidine hydrochloride)	145108-58-3	0.1 mg/ml
Composition comments	*Designates that a specific chemical identity a as a trade secret. In accordance with 29 CFR mixture has been withheld as a trade secret.		
4. First-aid measures			
nhalation	If inhaled, remove to fresh air. Call a physicia	n if symptoms develop or pe	ersist.
Skin contact	Wash off immediately with soap and plenty of unwell.		
Eye contact	Immediately flush with plenty of water for at le Continue rinsing. Call a physician or poison c	ontrol center immediately.	
ngestion	Rinse mouth thoroughly. Call a physician or p vomiting at the instruction of medical personn person.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporar redness, or discomfort. May cause drowsines pressure and other cardiac effects.		
ndication of immediate medical attention and special treatment needed	The active ingredient in this product produces agonist. Provide general supportive measures cardiac and central nervous system.		
General information	Ensure that medical personnel are aware of the protect themselves.	he material(s) involved, and	take precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Insuitable extinguishing nedia	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from he chemical	During fire, gases hazardous to health may be	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be w	orn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers		
Specific methods	Use standard firefighting procedures and con	sider the hazards of other ir	volved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personnel away. For person the contaminated area. Do not breathe mist o		
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Cover with plastic sheet to prevent s and place into containers. Following product r	spreading. Absorb in vermic	ulite, dry sand or earth
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean s	urface thoroughly to
Environmental precautions	Never return spills to original containers for re Prevent further leakage or spillage if safe to d onto the ground.		
7. Handling and storage			
Precautions for safe handling	Wear personal protective equipment. Handle eyes. Avoid contact with skin. Wash thorough practices.		
Conditions for safe storage,	Store in original tightly closed container. Store	e away from incompatible m	aterials (see Section 1

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Control banding approach	Dexmedetomidine hydrochloride - Zoetis OEB 5 (control exposure to <1ug/m3)		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) 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. General ventilation normally adequate.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves.		
Other	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.		
Respiratory protection	No personal respiratory protective equipment normally required. Respiratory protection should be provided in instances where exposure to dust, mists, aerosols or vapors are likely. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.		
Thermal hazards	Not applicable.		
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 to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Gel.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
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
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Matarial name: Silaa®	

Material name: Sileo®

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Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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 normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May be absorbed through the skin and cause systemic effects.
Eye contact	Direct contact with eyes may cause temporary irritation. Harmful in contact with eyes.
Ingestion	May be absorbed through mucous membranes and cause systemic effects. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort. May be absorbed through mucous membranes and cause systemic effects. May cause effects on blood pressure [decrease in blood pressure (hypotension)]; drowsiness, sleepiness, dizziness, sedation, and gastrointestinal disturbance. Target Organ(s): blood vessels. Heart. Central nervous system. May cause hypersensitivity reactions in susceptible individuals. Possible risk of harm to the unborn child.

Information on toxicological effects

Acute toxicity		
Components	Species	Test Results
Dexmedetomidine hydrochloride ((CAS 145108-58-3)	
Acute		
Intravenous		
LD50	Dog	2 mg/kg
Subacute		
Other		
LOAEL	Dog	0.01 mg/kg, 4 weeks (Intravenous; Target organs: Liver, Central nervous system)
NOAEL	Rat	0.02 mg/kg, 4 weeks (Intramuscular; Target organs: Eye, adrenal gland, lung, male reproductive system)
		0.01 mg/kg, 4 weeks (Intravenous; Target organs: Eye, liver)
NOEL	Dog	0.01 mg/kg, 4 weeks (Intramuscular; Target organs: Liver, Central nervous system)
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritat	ion.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions.	
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Dexmedetomidine hydrochloride

In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: Salmonella, E. coli

In Vitro Chromosome Aberration Result: Positive with activation, Negative without activation Species: Human Lymphocytes

In Vitro Mammalian Cell Mutagenicity Result: Negative Species: Mouse Lymphoma

In Vivo Micronucleus Result: Positive Species: Mouse

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Based on available data, the classification criteria are not met. Possible risk of harm to the unborn child. Avoid exposure during pregnancy.

Developmental effects

Dexmedetomidine hydrochloride

2 ug/kg/day Peri-Postnatal Development, (Fetotoxicity, Developmental toxicity) Result: NOAEL Species: Rat Organ: Subcutaneous

20 ug/kg Method not specified, (Not teratogenic, Fetotoxicity) Result: NOAEL Species: Rat Organ: Subcutaneous

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Not classified.
Further information	May be absorbed through mucous membranes and cause systemic effects. May be absorbed through the skin and cause systemic effects. The active ingredient in this product produces sedation and analgesia. May cause decreases in blood pressure and other cardiac effects.

12. Ecological information	1
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Avoid release to the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Avoid release to the environment. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

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

*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, including date of preparation or last revision

Issue date	05-12-2016
Version #	01
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