

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078950735

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078950731 078950732 078950733 078950734 078950736 078950771



# SAFETY DATA SHEET

Profender® Spot On Cat

## Section 1. Identification

<b>GHS product identifier</b>	: Profender® Spot On Cat
<b>Product code</b>	: 122000001666
<b>Other means of identification</b>	: 87147371; 87147363; 87147355; Drontal S. O. Cats; Drontal Spot On Cats; DrontSpot; DrontSpot Vet; Felpreva Small Cats; Felpreva Medium Cats; Felpreva Large Cats; Profender; Profender Cat; Profender S.O. Cat; Profender S.O. Sol. Cat; Profender® Spot On; Profender Small Cats & Kittens; Profender For Medium Cats; Profender For Large Cats; Profender Topical Solution; Bay 60-7500 / Profender® Spot On Katze; Profender® Spot On Chat; Profender® Spot On Gato; Profender® Spot On Gatto; Profender® Spot On Kat; Profender® Spot On Kedi; Profender® Spot On 고양이; 3615026; 3615034; 3615042; 3627105; 3627253; 3627261; 3636856; 3636872; 3636880; 3636899; 3636910; 3636929; 3636953; 3636961; 3640527; 3640691; 3640764; 3873157; 3873165; 3873173; 3873440; 3873459; 3873467; 3920899; 3920902; 3920929; 3930592; 3930606; 3930614; 3930622; 3930630; 3966902; 3966937; 3967194; 4468949; 4468957; 80057505; 80057548; 80057580; 80632674; 80654643; 80654678; 80804393; 81047839; 81055662; 81055697; 81055727; 81069361; 81069388; 81074217; 81149098; 81150869; 81150877; 81150893; 81283703; 81309680; 81309699; 81309702; 81465010; 81465134; 81465142; 81508194; 81508410; 81508429; 81630623; 81630658; 81663475; 81663483; 81846162; 81846170; 82084631; 82084690; 82214569; 82214607; 82214615; 82232699; 82237097; 82237100; 82237119; 82285016; 82285024; 82285032; 82482521; 82482572; 82482580; 82482602; 83872358; 83872536; 83872579; 83968664; 84026507; 84026523; 84026876; 84026884; 84185915; 84185923; 84329630; 84355127; 84370290; 84370312; 84370320; 84509493; 84509507; 84509523; 84607606; 84607614; 84607622; 84627186; 84696706; 84696870; 84696889; 84848581; 84848700; 84871141; 85008994; 85027565; 85027573; 85135139; 85209841; 85209868; 85209876; 85216872; 85216929; 85216945; 85217445; 85217453; 85217461; 85238159; 85238213; 85238248; 85446959; 85455109; 85456334; 85456342; 85469576; 85469630; 85469711; 85487574; 85530909; 85530917; 85530925; 85530933; 85530941; 85530976; 85622331; 85622374; 85655760; 85655779; 85655787; 85688383; 85713655; 85713663; 85713671; 85713698; 85713701; 85713752; 85713760; 85713833; 85713868; 85730649; 85976699; 86115867; 86115883; 86115891; 86303205; 86303248; 86307340; 86362317; 86362325; 86377527; 86377578; 86377713; 86468522; 86468530; 86468573; 86514257; 86514265; 86514281; 86514303; 86544644; 86546981; 86547007; 86547015; 86547023; 86547031; 86548062; 86548070; 86597195; 86597209; 86597217; 86597233; 86597446; 86597454; 86597462; 86598116; 86598140; 86811499; 86811545; 86811561; 86876558; 86876582; 86905280; 86905299; 86905302; 86905426; 86905442; 86905450; 86920611; 86920638; 86920719; 86984113; 86984148; 86984156; 86984172; 86984210; 86984229; 86984296; 86984326; 86984342; 87014665; 87032981; 87036014; 87036030; 87036049; 87036057; 87036065; 87036073; 87038696; 87038718; 87038769; 87038777; 87038785; 87038793; 87038823; 87038831; 87038882; 87053695; 87053709; 87053717; 87087034; 87097439; 87147320; 87147339; 87147347; 87177106; 87177149; 87441539; 87441547; 87441563; 87444260; 87444295; 87444309; 87444317; 87444325; 87444333; 87444341; 87444376; 87444384; 87444392; 87444406; 87444414; 87444422; 87444449; 87444457; 87444465; 87444473; 87446158; 87446174; 87446212; 87446239; 87446255; 87446263; 87446298; 87446328; 87446336; 87446425; 87446433; 87446441; 87448355; 87448371; 87448401; 87448428; 87448436; 87448444; 87448452; 87448460; 87448479; 87448533; 87448541; 87448568; 87450422; 87452433; 87452441; 87452468; 90197924; 90197927; 90197930; 90200109; 90200110; 90200280; 90200301; 90200303; 90200306; 90200307; 90200308; 90200649; 90200650; 90201670; 90201711; 90201712; 90201888; 90201889; 90201890; 90202125; 90202126; 90202127; 90202289; 90202290; 90202301; 90203432; 90203433; 90203434; 90204410; 90204461; 90204474; 90204476; 90204477; 90204478; 90204479; 90204480; 90204484; 90204485; 90204486; 90204487; 90204488; 90204489; 90204490; 90204501; 90204502; 90204512;

## Section 1. Identification

90204513; 90204514; 90204515; 90204516; 90204539; 90204544; 90204545;  
90205234; 90205235; 90205710; 90205741; 90205742; 90206299; 90206311;  
90206312; 90206678; 90206679; 90206680; 90206739; 90206783; 90207647;  
90207649; 90207650; 90207658; 90207659; 90207697; 90207698; 90207758;  
90207759; 90207760; 90207783; 90207784; 90207785; 90207786; 90207787;  
90207788; 90207845; 90207846; 90207847; 90207848; 90207849; 90207850;  
90208288; 90208290; 90208301; 90208302; 90208303; 90208304; 90209126;  
90209127; 90209191; 90209192; 90209219; 90209220; 90209231; 90209232;  
90209233; 90209234; 90209235; 90210068; 90210069; 90210070; 90210081;  
90210082; 90210086; 90209515; 90209575; 90209587; 90209604; 90209606;  
90209602; 90209588; Profender S.O. Cat; Profender® Spot On

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Veterinary pharmaceutical.; Unfinished drug mixture  
**Uses advised against** : None known.

**Company Name** : Elanco US Inc.  
2500 Innovation Way  
Greenfield IN, US 46140  
**Telephone number** : 1-877 Elanco1 (1-877-352-6261)  
**Emergency telephone number** : Elanco Product Technical Support / Human or Animal Exposure Reporting:  
1-888-545-5973  
**Email** : elanco\_sds@elancoah.com  
**Transportation Emergency telephone number** : CHEMTREC: 1-800-424-9300  
(Outside U.S. CHEMTREC International: 00 1-703-527-3887)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 4  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), Glucose Metabolism, kidneys, liver, pancreas) - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger  
**Hazard statements** : H227 - Combustible liquid.  
H319 - Causes serious eye irritation.  
H351 - Suspected of causing cancer.  
H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), Glucose Metabolism, kidneys, liver, pancreas)

### Precautionary statements

**Prevention** : P280 - Wear protective gloves, protective clothing and eye or face protection.  
P210 - Keep away from flames and hot surfaces. No smoking.  
P260 - Do not breathe vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash thoroughly after handling.

## Section 2. Hazards identification

<b>Response</b>	: P314 - Get medical advice or attention if you feel unwell. 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 or attention.
<b>Storage</b>	: P403 + P235 - Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: None known.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
lactic acid	<3	50-21-5
Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	$\leq 3$	155030-63-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

## Section 4. First aid measures

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

<b>Ingredient name</b>	<b>Exposure limits</b>
lactic acid	None.
emodeside	<b>Elanco OEL (ELANCO).</b> TWA: 28 µg/m <sup>3</sup> 8 hours.
tert-butyl-4-methoxyphenol	None.

## Section 8. Exposure controls/personal protection

### Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Colorless.
- Odor** : weak
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 190°C (374°F)

## Section 9. Physical and chemical properties and safety characteristics

**Flash point** : Closed cup: 80°C (176°F)

**Evaporation rate** : Not available.

**Flammability** : Not available.

**Lower and upper explosion limit/flammability limit** : Not available.

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	0.24 to 0.27	0.032 to 0.036				

**Relative vapor density** : Not available.

**Relative density** : Not available.

**Density** : 1.081 g/cm<sup>3</sup> [20°C (68°F)] [DIN 51757]

Media	Result
cold water	Easily soluble
hot water	Easily soluble

**Solubility in water** : Not available.

**Miscible with water** : Yes.

**Partition coefficient: n-octanol/water** : Not applicable.

Ingredient name	°C	°F	Method
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	>230	>446	BAM method
lactic acid	400	752	EU A.15

**Decomposition temperature** : Not available.

**Viscosity** : Not available.

**Flow time (ISO 2431)** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

## Section 10. Stability and reactivity

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
lactic acid	LC50 Inhalation Vapor	Rat	>7.94 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg (no mortality)	-
	LD50 Oral	Rat	3543 mg/kg	-
	LD50 Dermal	Rat	>2000 mg/kg	-
Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	LD50 Oral	Rat	500 to 1000 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
lactic acid	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Severe irritant	Rabbit	-	88 %	-

**Skin** : Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]: Non-irritating to the skin.

**Eyes** : Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]: Non-irritating to the eyes.

#### Sensitization

Product/ingredient name	Route of exposure	Species	Result
Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	skin	Guinea pig	Not sensitizing

#### Mutagenicity

## Section 11. Toxicological information

Product/ingredient name	Test	Experiment	Result
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative
	OECD 473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Germ	Negative

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	Category 1	oral	central nervous system (CNS), Glucose Metabolism, kidneys, liver, pancreas

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

## Section 11. Toxicological information

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	Chronic LOAEL Oral	Mouse - Female	79.1 mg/kg	13 weeks
	Chronic LOAEL Oral	Rat - Male	4.2 mg/kg	4 weeks
	Chronic NOAEL Oral	Mouse - Female	16.8 mg/kg	13 weeks

<b>General</b>	: Causes damage to organs through prolonged or repeated exposure.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Profender® Spot On Cat	12402.4	16176.9	N/A	N/A	N/A
lactic acid	3543	2500	N/A	N/A	N/A
Cyclo[( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-( $\alpha$ R)- $\alpha$ -hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	500	2500	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
lactic acid	Acute EC50 3500 mg/l Acute LC50 130 mg/l Chronic NOEC 1900 mg/l	Algae Fish	72 hours 96 hours
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	Acute EC50 0.0021 mg/l	Algae Daphnia - Daphnia magna	72 hours 48 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	-	-	Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
lactic acid	-0.72	-	low
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	4.9	-	high

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.


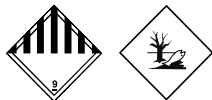
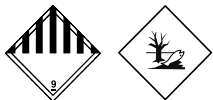

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

## Section 13. Disposal considerations

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EMODEPSIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EMODEPSIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emodepside)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emodepside)
Transport hazard class(es)	-	9 	9 	9 	9 
Packing group	-	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.	Yes.

### Additional information

#### TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

#### Mexico Classification

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

#### IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

#### IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

## Section 15. Regulatory information

**Clean Air Act Section 602** : Not listed

**Class II Substances**

**DEA List I Chemicals  
(Precursor Chemicals)** : Not listed

**DEA List II Chemicals  
(Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : FLAMMABLE LIQUIDS - Category 4  
EYE IRRITATION - Category 2A  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), Glucose Metabolism, kidneys, liver, pancreas) - Category 1

**Composition/information on ingredients**

Name	%	Classification
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	≥75 - ≤90	FLAMMABLE LIQUIDS - Category 4
lactic acid	<3	SERIOUS EYE DAMAGE - Category 1
Cyclo[(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl-(αR)-α-hydroxy-4-(4-morpholinyl)benzenepropanoyl-N-methyl-L-leucyl-(2R)-2-hydroxypropanoyl-N-methyl-L-leucyl]	≤3	ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), Glucose Metabolism, kidneys, liver, pancreas) (oral) - Category 1

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

**California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### Inventory list

**United States** : Not determined.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 7/19/2023

**Date of previous issue** : 3/27/2023

**Version** : 0.02

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient

## Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

### References

: Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. **THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE).** In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

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