SAFETY DATA SHEETS

This SDS packet was issued with item:

078907983

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

078912025 078912764 078922619 078927235 078928020

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078066071 078918904 078918905 078918906 078919025 078919026 078919027 078925525 078925526 078925527



MATERIAL SAFETY DATA SHEET

According to the Commission Directive of 5 March 1991 (91/155/EEC)

Date: 20/11/2006 revision: 01

1 - <u>IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE</u> COMPANY/UNDERTAKING

1.1. -Identification of the substance or preparation

FELIWAY WIPE

1.2. -Company/undertaking identification

CEVA SANTE ANIMALE

Zone Industrielle La Ballastière B.P. 126 33501 LIBOURNE CEDEX FRANCE

Téléphone: (33) 05 57 55 40 40 Télécopie: (33) 05 57 55 41 98

1.3. -Pnone number of the official advisory body: (33) 01 45 42 59 59

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Phéromonal fraction: 2 % Excipient, qsp : 1.5 ml

Dangerous substances according to EEC norms about dangerous substances and

Preparations (67/548/EEC - 88/379/EEC) and their classification : none

CEVA SANTE ANIMALE S.A. La Ballastière – BP 126 – 33501 Libo

La Ballastière – BP 126 – 33501 Libourne Cedex – France Tél : 33 (0)5 57 55 40 40 – Fax : 33 (0)5 57 55 41 98

S.A. au capital de 40 331 892 Euros. RCS Libourne B. 301 763 405

Nom du produit : FELIWAY WIPE

3 - HAZARDS IDENTIFICATION

Hazards to human health (also in case of mishandling): see point n° 4

Hazards to the environment (also in case of mishandling): Do not throw in the environment

4 - FIRST AID MEASURES

First aid in case of:

- Inhalation : No specific hazard

- Skin contact : wash with water

- Eye contact : Avoid contact with eyes

5 - FIRE-FIGHTING MEASURES

Extinguishing media: None

6 - ACCIDENTAL RELEASE MEASURES

Personal precaution: No special equipment is required

Environmental precaution: Do not throw in the environment

7 - HANDLING AND STORAGE

7.1. Handling

Keep out of reach of children.

Do not contaminate food or drinking stuff or their containers.

7.2. Storage

Keep product in its packaging at room temperature and in dry places.

Nom du produit : FELIWAY WIPE

8 - EXPOSURE CONTROL/PERSONNAL PROTECTION

No particulary protection needed for normal use

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: wipe imprenating with pheromonal solution

Odour: Characteristic

10 -STABILITY AND REACTIVITY

None

11 - TOXICOLOGICAL INFORMATION

12 - ECOLOGICAL INFORMATION

None

13 - DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with local Authority requirements.

14 - TRANSPORT INFORMATION

Road and rail transport : ADR / RID no classification

Sea freight: IMDG / IMO no classification

Air freight: ICAO / IATA no classification

Nom du produit : FELIWAY WIPE

15 - REGULATORY INFORMATION

Classification according to dangerous substance and preparation norms : No classification

Safety sentences / Caution advices :

Keep out of reach of children Do not swallow .

16 - OTHER INFORMATION

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current technical knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product for a purpose other than that for wich it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsability to take due precautions relative to the use made of the product.

All information contained herein is included only to assist the recipient in fulfilling his or her statutory duty connected with the use of hazardous materials.

The list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which he or she remains the sole person responsible.

Referring norms:

- EEC norm on dangerous preparations 88 / 379 and successives updating
- EEC norm on dangerous preparations 67 / 548 and successives updating



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: FELIWAY Spray 75mL

Intended Use: To comfort cats in stressful environments and prevent scratching and urinary marking.

Emergency Spill, Leak, Fire Contact Information: CHEMTREC 1-800-424-9300

Marketed by: Ceva Animal Health, LLC

8735 Rosehill Road Lenexa, KS 66215

Exporter Address: Ceva Santé Animale

Zone Industrielle La Ballastiére BP 126 33501 Libourne CEDEX, France

Section 2: Handling and Storage

Handling: Use in an area with adequate ventilation. Avoid breathing vapor or mist. Wash hands with soap and water after handling.

Fire and Explosion Protection: Highly Flammable. Do not handle near flames, sources of heat or sparks (e.g. electrical apparatus).

Storage: Keep in original container tightly closed, and store at room temperature. Keep out of reach of children. Keep away from food, drink, and animal feed.

Section 3: Hazards Identification

WARNING!





Not for human use.

Do not apply this product directly onto animals.

Highly Flammable.

Avoid exposure to heat and open flame.

Physical State: Liquid

Color: Clear

Odor: No perceptible odor

Precautionary Statements:

- If large amounts are ingested, seek medical advice and show the container label.
- Keep only in original container, tightly closed. Store at room temperature.
- Keep out of reach of children.
- Keep away from food, drink, and animal feed.

Potential Health Effects:

- Inhalation: May cause respiratory tract irritation.
- Eye Contact: May cause eye irritation.
- Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

Section 4: First Aid Measures

- Inhalation: Move to fresh air or apply oxygen as needed. Get medical attention if symptoms persist.
- Eye Contact: Immediately flush with water until no evidence of chemical remains (approximately 15 minutes). Seek medical attention if symptoms persist.
- Skin Contact: Flush skin with soap and water.
- Ingestion: Induce vomiting and consult a physician.

Section 5: Fire-Fighting Measures

Extinguishing Media: Powders, carbon dioxide, water spray, or alcohol-resistant foam

Unsuitable Extinguishing Media: Water jet or straight streams of water

Special Fire-Fighting Procedures: Use water spray to keep fire-exposed containers cool.

Unusual Fire and Explosion Hazards: Can release vapors that form explosive mixtures at temperatures above the flashpoint. Containers may explode in the heat of a fire.

Hazardous Combustion Products: None known

Section 6: Accidental Release Measures:

Personal Protection: optional; Wash hands with soap and water after handling.

Spill Cleanup Methods:

Ensure any sources of ignition are extinguished or removed. Use an inert absorbent material to soak up the product and place into a container for disposal in accordance with Federal, State, and Local regulations for combustibles. For large spills, ensure the room has proper ventilation to remove vapors. Avoid contamination of drains.

Chemical Name	CAS- No.	% Composition
Analogue of naturally occurring feline facial		10%
pheromone		
90% Ethanol	64-17-5	77.6%
Excipients		Q.S. to 75mL

Section 8: Physical and Chemical Properties

Color: ClearFlash Point: 18.5°C (65.3°F)Physical State: LiquidFreezing Point: No data availableBoiling Point: No data availableSolubility in water: Soluble

Section 9: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Exposure to heat and open flame

Incompatible Materials: Keep away from strong oxidants.

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Section 10: Toxicological Information

There is no data on the toxicity of this product.

Section 11: Ecological Information

There is no data on the ecotoxicity of this product.

Section 12: Disposal Considerations:

General: This substance should be disposed of in accordance with local, state, and federal regulations for combustibles.

Disposal Method: Do not empty into drains. Store and dispose of this material and its container in a safe manner which will not contaminate water, food, or animal feed.

Container: Since emptied containers retain product residue, follow label warnings even after the container is emptied.

Section 13: Transport Information

DOT: Class 3- UN 1770 Flammable Liquid

Section 14: Regulatory Information

None known

Section 15: Exposure Controls/Personal Protection

For industrial exposure: No occupational exposure limits established.

Engineering Controls: Good ventilation should be used (typically 10 air changes per hour). Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable condition.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below an acceptable level, an approved respirator must be worn.

Personal Protective Equipment:

Eye Protection: Wear safety glasses with side shields or goggles.

Hygiene Measures: Eyewash station

Disclaimer: The information provided herein is offered by Ceva Animal Health, LLC in good faith as accurate to the best of our knowledge. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Ceva Animal Health, LLC does not assume any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. We neither represent nor warrant that the format, content,

or product formulas contained in this document comply with the laws of any other country except the United States of America.



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: FELIWAY 48mL Liquid Refill for FELIWAY Diffuser

Intended Use: To comfort cats in stressful environments.

Emergency Spill, Leak, Fire Contact Information: CHEMTREC 1-800-424-9300

Marketed by: Ceva Animal Health, LLC

8735 Rosehill Road Lenexa, KS 66215

Exporter Address: Ceva Santé Animale

Zone Industrielle La Ballastiére BP 126 33501 Libourne CEDEX, France

Section 2: Handling and Storage

Handling: Avoid directly breathing vapor or mist. Wash hands with soap and water after handling.

Storage: Store in a dry place at room temperature in original container. Keep out of reach of children. Keep away from food, drink, and animal feed.

Section 3: Hazards Identification

WARNING!



Not for human use.

Do not apply this product directly onto animals.

Physical State: Liquid

Color: Clear

Odor: No perceptible odor

Precautionary Statements:

- If large amounts are ingested, seek medical advice and show the container label.
- Keep only in original container, and store at room temperature.
- Keep out of reach of children.
- Keep away from food, drink, and animal feed.

Potential Health Effects:

- **Inhalation:** Breathing small amounts of this material is not likely to be harmful. May cause irritation of the respiratory tract with high mist concentrations.
- Eye Contact: May cause slight eye irritation.
- Ingestion: May cause gastrointestinal irritation.

Section 4: First Aid Measures

• Inhalation: Move to fresh air. Get medical attention if symptoms persist.

- Eye Contact: Immediately flush with water until no evidence of chemical remains (approximately 15 minutes). Seek medical attention if symptoms persist.
- Skin Contact: Flush skin with soap and water.

Ingestion: Consult a physician.

Section 5: Fire-Fighting Measures

Extinguishing Media: Powders, carbon dioxide, water spray, or foam

Unsuitable Extinguishing Media: None known

Special Fire-Fighting Procedures: None known

Unusual Fire and Explosion Hazards: None known

Hazardous Combustion Products: None known

Section 6: Accidental Release Measures:

Personal Protection: optional; Wash hands with soap and water after handling.

Spill Cleanup Methods:

Use an absorbent material (sand, sawdust, absorbent paper) to soak up the product and place into a waterproof container for disposal in accordance with Federal, State, and Local regulations. Avoid contamination of drains.

Section 7: Composition/Ingredient Information			
		T 4/ 2	
Chemical Name	CAS- No.	% Composition	
Analogue of naturally occurring feline facial		2%	
pheromone			
Excipients		Q.S. to 48mL	

Section 8: Physical and Chemical Properties

Color: ClearFlash Point: >100°C (212°F)Physical State: LiquidFreezing Point: No data availableBoiling Point: No data availableSolubility in water: Not Soluble

Section 9: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known Incompatible Materials: None known

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Section 10: Toxicological Information

Not a primary skin irritant and not toxic by oral ingestion or inhalation. A minor irritant when in direct contact with

the eyes.

Section 11: Ecological Information

There is no data on the ecotoxicity of this product.

Section 12: Disposal Considerations:

General: This substance should be disposed of in accordance with local, state, and federal regulations.

Disposal Method: Do not empty into drains. Store and dispose of this material and its container in a safe manner which will not contaminate water, food, or animal feed.

Container: Since emptied containers retain product residue, follow label warnings even after the container is emptied.

Section 13: Transport Information

DOT: Not regulated.

Section 14: Regulatory Information

None known

Section 15: Exposure Controls/Personal Protection

For industrial exposure: No occupational exposure limits established.

Engineering Controls: Good ventilation should be used (typically 10 air changes per hour). Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable condition.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below an acceptable level, an approved respirator must be worn.

Personal Protective Equipment:

• **Eye Protection:** Wear safety glasses with side shields or goggles.

Hygiene Measures: Eyewash station

Disclaimer: The information provided herein is offered by Ceva Animal Health, LLC in good faith as accurate to the best of our knowledge. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Ceva Animal Health, LLC does not assume any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. We neither represent nor warrant that the format, content, or product formulas contained in this document comply with the laws of any other country except the United States of America.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 5.0 Revision date: 07/23/2014 Supersedes: Version 4.0 – 02/04/2011

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Name : FELIWAY Spray

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Calming product for cats.

Professional and Consumer use.

The product is sprayed on furniture, cat's bedding and cat's transportation or hospitalisation

cage. The volume per application ranges from 120µL to 140µL.

Uses adviced against See directions for use on package insert and box

1.3. Details of the supplier of the safety data sheet

Ceva Santé Animale

10 Avenue de la Ballastière

33500 Libourne

France

+33 (0)5 57 55 40 40

contact@ceva.com

Ceva Animal Health, LLC

8735 Rosehill Rd

Lenexa, KS 66215

USA

1 800 999 0297

contact.us@ceva.com

1.4. Emergency telephone number

Country Official advisory body / Company		Address	Emergency number
UNITED STATES	CHEMTREC	-	+1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Eye Irrit. 2A H319

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)

Precautionary statements (GHS-US)





GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation
P102 Keep out of reach of children
P103 Read label before use

P210 Keep away from heat/ sparks/open flames/hot surfaces. No smoking

P305 + P351 If in eyes: Rinse cautiously with water for several minutes

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of container to hazardous or special waste collection point, in

accordance with local regulation.

2.3. Other hazards

Other hazards not contributing to the classification : May cause skin irritation.

May cause respiratory irritation.

2.4. Unknown acute toxicity (GHS-US)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethanol	(CAS No) 64-17-5	> 80	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Pimelic acid	(CAS No) 111-16-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Azelaic acid	(CAS No) 123-99-9	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person to the fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with soapy water. In case of redness or irritation, call a doctor.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open.

If irritation persists, consult an eye specialist.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : May cause slight irritation.

Symptoms/injuries after eye contact : Serious eye irritation.

Symptoms/injuries after ingestion : Potential headache, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Carbon dioxide (CO2). Dry powder.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the chemicals

Fire hazard : Highly flammable liquid and vapour.

The vapours are denser than air and may travel along the ground. Distance ignition possible.

Carbon oxides (CO and CO2) may be released.

Reactivity : To our knowledge, the product does not present any particular risk, under normal conditions of

use.

5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by

bunding.

Protection during firefighting : Avoid inhalation of fumes. Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus and protective clothing.

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FELIWAY[®] Spray

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with

: Avoid contact with skin and eyes. Do not breathe vapours. In case of important spillage: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid ignition

sources.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

Emergency procedures : Remove all sources of ignition. Ventilate spillage area.

6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Take up liquid spill into absorbent material, e.g.: sand, earth, powdered limestone...

Methods for cleaning up : Wash contaminated area with large amounts of water.

Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe

vapours. Remove all sources of ignition.

Hygiene measures : Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool, well-ventilated area. Protect from heat and direct sunlight. Keep away from

ignition sources.

Incompatible materials : Strong acids. Strong oxydizing agents. Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Butyl-rubber protective gloves are recommended.

Eye protection : Sealed safety goggles are recommended.

Skin and body protection : Protective non-flammable clothing if handling of large quantity of formulation.

Respiratory protection : If the occupational exposure limit is exceeded: Breathing apparatus with filter.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless Odour characteristic. Odour threshold No data available : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available : 78 - 78.5 °C (Ethanol) Boiling point Flash point 13 °C (Ethanol)

Auto-ignition temperature : 363 - 425 °C (Ethanol)

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 5.9 kPa (20°C) (Ethanol)

Relative vapour density at 20 °C : No data available Relative density No data available Solubility : Water: Soluble Log Pow No data available Log Kow No data available : No data available Viscosity, kinematic No data available Viscosity, dynamic Explosive properties : Not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : 3.3 - 19 vol % (Ethanol)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Highly flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible.

10.4. Conditions to avoid

Heat. Sparks. Open flame. Ignition sources.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Ethanol (64-17-5)		
LD50 oral rat	10470 mg/kg (95 %)	
LC50 inhalation rat	117 - 125 mg/l/4h	
ATE (oral)	6200 mg/kg bodyweight	

,	0 0 7 0
Pimelic acid (111-16-0)	
LD50 oral rat	7000 mg/kg
ATE (oral)	7000 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated

exposure)

: Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow the product to be released into the environment.

Ethanol (64-17-5)	
LC50 fishes	> 10000 mg/l/96h (Leucidus idus)
EC50 Daphnia	9268 - 14221 mg/l/48h (Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable.

Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	94 %

12.3. Bioaccumulative potential

Ethanol (64-17-5)	
Log Pow	-0.31
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations.

Additional information : Empty the packaging completely prior to disposal. After cleaning, recycle or dispose of at an authorised site.

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: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

SECTION 14: Transport information

14.1. UN number

UN-No. : 1170

14.2. UN proper shipping name

Proper Shipping Name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Transport document description : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)

14.3. Transport hazard class(es)

Class (UN) : 3 - Flammable liquids

Department of Transportation (DOT) Hazard

Classes

Hazard labels (UN) : 3

Hazard labels (DOT) : 3 - Flammable liquid

(N)

14.4. Packing group

Packing group (UN) : II

Packing group (DOT) : II - Medium Danger

14.5. Environmental hazards

Other information : No

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33 Classification code (UN) : F1

Orange plates :

33 1170

Special provision (ADR) : 144

601 : 2 : D/E : 1L : E2

: 2YE

14.6.2. Transport by sea

Transport category (ADR)

Tunnel restriction code

EAC code

Limited quantities (ADR)

Excepted quantities (ADR)

FS F-E S-D IMDG Segregation code group No

Stowage and separation Category A Flash Point 13°C

14.6.3. Air transport

Instruction "cargo" (ICAO)

Packaging Instr. 364 Net quantity max / packaging 60L

Instruction "passenger & cargo" (ICAO)

Packaging Instr. Y 341 Net quantity max / packaging 1 L

Packaging Instr. 353 Net quantity max / packaging 5L



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14.7. DOT

DOT Special Provisions (49 CFR 172.102) : 24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24

percent but not more than 70 percent alcohol by volume must be transported as materials in

Packing Group III.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions : Refer to 49 CFR 173.4b and 49 CFR 173.150

DOT Packaging Non Bulk : Refer to 49 CFR 173.202
DOT Packaging Bulk : Refer to 49 CFR 173.242

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Pimelic acid (111-16-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Azelaic acid (123-99-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

Pimelic acid (111-16-0)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

Azelaic acid (123-99-9)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

EU-Regulations

Ethanol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Pimelic acid (111-16-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Azelaic acid (123-99-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225 Eye Irrit. 2 H319

Full text of H-phrases: see section 16

15.3. US State regulations

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Version: 5.0 Revision date: 07/23/2014 Supersedes: Version 4.0 - 02/04/2011

Ethanol (64-17-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

SECTION 16: Other information

Data sources : SDS of suppliers. ECHA - European Chemical Agency. Toxicological sheet of INRS (France) :

48.

Full text of H-phrases

At of 11 philases	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

Personal Protection : G

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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