

Section 2. Hazards identification

central nervous system (CNS), kidneys and liver) - Category 2

2.2 GHS label elements

Hazard pictograms



Signal word

- : Veterinary Drugs Comprehensive Mix - Submix 3A Warning
- Veterinary Drugs Comprehensive Mix - Submix 3B Danger

Hazard statements

- : Veterinary Drugs Comprehensive Mix - Submix 3A H320 - Causes eye irritation.
- Veterinary Drugs Comprehensive Mix - Submix 3B GHS SYMBOL - **Flame** - **Exclamation mark** - **Health hazard** -
 H225 - Highly flammable liquid and vapor.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H319 - Causes serious eye irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

Precautionary statements

Prevention

- : Veterinary Drugs Comprehensive Mix - Submix 3A P264 - Wash hands thoroughly after handling.
- Veterinary Drugs Comprehensive Mix - Submix 3B P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.

Response

- : Veterinary Drugs Comprehensive Mix - Submix 3A 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 attention.
 P314 - Get medical attention if you feel unwell.
- Veterinary Drugs Comprehensive Mix - Submix 3B P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a

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POISON CENTER or physician if you feel unwell. Rinse mouth.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
 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 attention.

Storage : Veterinary Drugs Comprehensive Mix - Submix 3A
 Veterinary Drugs Comprehensive Mix - Submix 3B

Not applicable.
 P403 - Store in a well-ventilated place.
 P235 - Keep cool.

Disposal : Veterinary Drugs Comprehensive Mix - Submix 3A
 Veterinary Drugs Comprehensive Mix - Submix 3B

Not applicable.
 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Veterinary Drugs Comprehensive Mix - Submix 3A
 Veterinary Drugs Comprehensive Mix - Submix 3B

None known.
 None known.

2.3 Other hazards

Hazards not otherwise classified : Veterinary Drugs Comprehensive Mix - Submix 3A
 Veterinary Drugs Comprehensive Mix - Submix 3B

None known.
 None known.

Section 3. Composition/information on ingredients

Substance/mixture : Veterinary Drugs Comprehensive Mix - Submix 3A Mixture
 Veterinary Drugs Comprehensive Mix - Submix 3B Mixture

Ingredient name	%	CAS number
Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	≥90	67-68-5
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	≥75 - ≤90	75-05-8

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 as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact


:  Veterinary Drugs Comprehensive Mix - Submix 3A

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. If irritation persists, get medical attention.

Veterinary Drugs Comprehensive Mix - Submix 3B

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.

Inhalation


:  Veterinary Drugs Comprehensive Mix - Submix 3A

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 if adverse health effects persist or are severe. 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.

Veterinary Drugs Comprehensive Mix - Submix 3B

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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.

Skin contact


:  Veterinary Drugs Comprehensive Mix - Submix 3A

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Veterinary Drugs Comprehensive Mix - Submix 3B



Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion	:  Veterinary Drugs Comprehensive Mix - Submix 3A	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 if adverse health effects persist or are severe. 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.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If necessary, call a poison center or physician. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	Causes eye irritation. Causes serious eye irritation.
Inhalation	:  Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	No known significant effects or critical hazards. Harmful if inhaled.
Skin contact	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	No known significant effects or critical hazards. Harmful in contact with skin.
Ingestion	:  Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	No known significant effects or critical hazards. Harmful if swallowed.

Over-exposure signs/symptoms

Section 4. First aid measures

Eye contact	: Veterinary Drugs Comprehensive Mix - Submix 3A	Adverse symptoms may include the following: irritation watering redness
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific data.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	No specific data.
Skin contact	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific data.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	No specific data.
Ingestion	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific data.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	No specific data.

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

Notes to physician	: Veterinary Drugs Comprehensive Mix - Submix 3A	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	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	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific treatment.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	No specific treatment.
Protection of first-aiders	: Veterinary Drugs Comprehensive Mix - Submix 3A	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.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.


See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	None known. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	In a fire or if heated, a pressure increase will occur and the container may burst. Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	:  Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	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. 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	: Veterinary Drugs Comprehensive Mix - Submix 3A Veterinary Drugs Comprehensive Mix - Submix 3B	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Veterinary Drugs Comprehensive Mix - Submix 3A

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Veterinary Drugs Comprehensive Mix - Submix 3B

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.

For emergency responders

: Veterinary Drugs Comprehensive Mix - Submix 3A

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". 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".

Veterinary Drugs Comprehensive Mix - Submix 3B

6.2 Environmental precautions

: Veterinary Drugs Comprehensive Mix - Submix 3A

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).

Veterinary Drugs Comprehensive Mix - Submix 3B

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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: Veterinary Drugs Comprehensive Mix - Submix 3A

Stop leak if without risk. Move containers from spill area. 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.

Veterinary Drugs Comprehensive Mix - Submix 3B

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	: Veterinary Drugs Comprehensive Mix - Submix 3A	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Veterinary Drugs Comprehensive Mix - Submix 3B	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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Veterinary Drugs Comprehensive Mix - Submix 3A	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.
	Veterinary Drugs Comprehensive Mix - Submix 3B	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.
7.2 Conditions for safe storage, including any incompatibilities	: Veterinary Drugs Comprehensive Mix - Submix 3A	Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. 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. 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.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Store between the following temperatures: 18 to 25°C (64.4 to 77°F). 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,

Section 7. Handling and storage

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.

7.3 Specific end use(s)

Recommendations	: <input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3A : <input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3B	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: <input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3A : <input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3B	Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	AIHA WEEL (United States, 10/2011). TWA: 250 ppm 8 hours.
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	ACGIH TLV (United States, 3/2015). Absorbed through skin. TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 40 ppm 8 hours. TWA: 70 mg/m ³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 20 ppm 10 hours. TWA: 34 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 40 ppm 8 hours. TWA: 70 mg/m ³ 8 hours.

8.2 Exposure controls

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.

Section 8. Exposure controls/personal protection

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** : When used as intended with Agilent instruments, use of the product is not expected to result in direct contact with the chemical. However, in case of accidental contact with splash wear good quality:
Submix 3A: Glove material: Chloroprene rubber
 Glove thickness: ≥ 0.5 mm
 Breakthrough time: >30 minutes

Submix 3B:
 Glove material: Butyl rubber
 Glove thickness: ≥ 0.2 mm
 Breakthrough time: >30 minutes

 While not recommended, if typical disposable laboratory nitrile gloves are used, they need to be removed immediately if contacted with the mixture. 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- 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** : When used as intended (with Agilent instruments), the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures, and, therefore, respiratory protection isn't needed. In emergency situations, when a respirator is needed, use a full-face supplied air respirator and components tested and approved under appropriate government standards such as CEN (EU) or NIOSH (US).

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Veterinary Drugs Comprehensive Mix - Submix 3A Liquid.
 Veterinary Drugs Comprehensive Mix - Submix 3B Liquid.
- Color** : Veterinary Drugs Comprehensive Mix - Submix 3A Not available.
 Veterinary Drugs Comprehensive Mix - Submix 3B Not available.

Section 9. Physical and chemical properties

Odor	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.
Odor threshold	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.
pH	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.
Melting point	: Veterinary Drugs Comprehensive Mix - Submix 3A	18.5°C (65.3°F)
	: Veterinary Drugs Comprehensive Mix - Submix 3B	-46°C (-50.8°F)
Boiling point	: Veterinary Drugs Comprehensive Mix - Submix 3A	189°C (372.2°F)
	: Veterinary Drugs Comprehensive Mix - Submix 3B	82°C (179.6°F)
Flash point	: Veterinary Drugs Comprehensive Mix - Submix 3A	Open cup: 95°C (203°F)
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Closed cup: 12.8°C (55°F)
Evaporation rate	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	2.33 (butyl acetate = 1)
Flammability (solid, gas)	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not applicable.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Not applicable.
Lower and upper explosive (flammable) limits	: Veterinary Drugs Comprehensive Mix - Submix 3A	Lower: 2.6%
		Upper: 28.5%
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Lower: 3%
		Upper: 16%
Vapor pressure	: Veterinary Drugs Comprehensive Mix - Submix 3A	0.049 kPa (0.37 mm Hg) [room temperature]
	: Veterinary Drugs Comprehensive Mix - Submix 3B	9.7 kPa (72.75 mm Hg) [room temperature]
Vapor density	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	1.4 [Air = 1]
Relative density	: Veterinary Drugs Comprehensive Mix - Submix 3A	1.101
	: Veterinary Drugs Comprehensive Mix - Submix 3B	0.807
Solubility	: Veterinary Drugs Comprehensive Mix - Submix 3A	Easily soluble in the following materials: cold water and hot water.
	: Veterinary Drugs Comprehensive Mix - Submix 3B	Soluble in the following materials: cold water and hot water.

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Partition coefficient: n-octanol/water	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.
Auto-ignition temperature	: Veterinary Drugs Comprehensive Mix - Submix 3A	215°C (419°F)
	Veterinary Drugs Comprehensive Mix - Submix 3B	524°C (975.2°F)
Decomposition temperature	: Veterinary Drugs Comprehensive Mix - Submix 3A	140 to 189°C (284 to 372.2°F)
	Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.
Viscosity	: Veterinary Drugs Comprehensive Mix - Submix 3A	Not available.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific test data related to reactivity available for this product or its ingredients.
	Veterinary Drugs Comprehensive Mix - Submix 3B	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Veterinary Drugs Comprehensive Mix - Submix 3A	The product is stable.
	Veterinary Drugs Comprehensive Mix - Submix 3B	The product is stable.
10.3 Possibility of hazardous reactions	: Veterinary Drugs Comprehensive Mix - Submix 3A	Under normal conditions of storage and use, hazardous reactions will not occur.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Veterinary Drugs Comprehensive Mix - Submix 3A	No specific data.
	Veterinary Drugs Comprehensive Mix - Submix 3B	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. Do not allow vapor to accumulate in low or confined areas.
10.5 Incompatible materials	: Veterinary Drugs Comprehensive Mix - Submix 3A	Reactive or incompatible with the following materials: oxidizing materials
	Veterinary Drugs Comprehensive Mix - Submix 3B	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Veterinary Drugs Comprehensive Mix - Submix 3A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Veterinary Drugs Comprehensive Mix - Submix 3B	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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Name	Category	Route of exposure	Target organs
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	Category 2	Not determined	blood system, central nervous system (CNS), kidneys and liver

Aspiration hazard

Not available.

Information on the likely routes of exposure

- : Veterinary Drugs Comprehensive Mix - Submix 3A
Routes of entry anticipated: Oral, Dermal, Inhalation.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

- : Veterinary Drugs Comprehensive Mix - Submix 3A
Causes eye irritation.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Causes serious eye irritation.

Inhalation

- : Veterinary Drugs Comprehensive Mix - Submix 3A
No known significant effects or critical hazards.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Harmful if inhaled.

Skin contact

- : Veterinary Drugs Comprehensive Mix - Submix 3A
No known significant effects or critical hazards.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Harmful in contact with skin.

Ingestion

- : Veterinary Drugs Comprehensive Mix - Submix 3A
No known significant effects or critical hazards.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

- : Veterinary Drugs Comprehensive Mix - Submix 3A
Adverse symptoms may include the following:
irritation
watering
redness
- : Veterinary Drugs Comprehensive Mix - Submix 3B
Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation

- : Veterinary Drugs Comprehensive Mix - Submix 3A
No specific data.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
No specific data.

Skin contact

- : Veterinary Drugs Comprehensive Mix - Submix 3A
No specific data.
- : Veterinary Drugs Comprehensive Mix - Submix 3B
No specific data.

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Ingestion : Veterinary Drugs Comprehensive Mix - Submix 3A No specific data.
 Veterinary Drugs Comprehensive Mix - Submix 3B No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B No known significant effects or critical hazards.

Mutagenicity : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B No known significant effects or critical hazards.

Teratogenicity : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B No known significant effects or critical hazards.

Developmental effects : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B No known significant effects or critical hazards.

Fertility effects : Veterinary Drugs Comprehensive Mix - Submix 3A No known significant effects or critical hazards.
 Veterinary Drugs Comprehensive Mix - Submix 3B No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3B	
Oral	572.1 mg/kg
Dermal	1258.6 mg/kg
Inhalation (vapors)	12.59 mg/l

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water Acute LC50 34000000 µg/l Fresh water Chronic NOEC 100 ul/L Marine water	Daphnia - Daphnia magna - Neonate Fish - Pimephales promelas Algae - Ulva lactuca	48 hours 96 hours 72 hours
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	Acute IC50 3685000 µg/l Fresh water Acute LC50 3600000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic NOEC 1000000 µg/l Fresh water Chronic NOEC 160000 µg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna	96 hours 48 hours 96 hours 96 hours 21 days

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
<input checked="" type="checkbox"/> Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	-1.35	3.16	low
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	-0.34	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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 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.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile (I,T)	75-05-8	Listed	U003

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

Regulatory information

Additional information : **Remarks**
De minimis quantities

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 5(a)2 final significant new use rules**: sulphanilamide
TSCA 5(e) substance consent order: sulphanilamide
TSCA 8(a) PAIR: dapsone; Acetonitrile
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 307: Acetonitrile

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances : Not listed

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 : Fire hazard
 Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Veterinary Drugs Comprehensive Mix - Submix 3A Dimethyl sulfoxide	≥90	Yes.	No.	No.	Yes.	No.
Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	≥75 - ≤90	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	75-05-8	≥75 - ≤90
Supplier notification	Veterinary Drugs Comprehensive Mix - Submix 3B Acetonitrile	75-05-8	≥75 - ≤90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: ACETONITRILE
- New York** : The following components are listed: Acetonitrile; Ethanenitrile
- New Jersey** : The following components are listed: DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-; ACETONITRILE; CYANOMETHANE
- Pennsylvania** : The following components are listed: ACETONITRILE

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Veterinary Drugs Comprehensive Mix - Submix 3A Chloramphenicol	Yes.	No.	No.	No.

Canada inventory : Not determined.

International regulations

International lists :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory (ENCS)**: Not determined.
- Japan inventory (ISHL)**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
- Turkey inventory**: Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History

Date of issue : 07/28/2016

Date of previous issue : 07/11/2014.

Version : 4

✔ Indicates information that has changed from previously issued version.

Notice to reader

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