

SAFETY DATA SHEET



Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

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

1.1 Product identifier

Product name : Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523
Part No. (Kit) : 5188-6523
Part No. : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Not available.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Not available.
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Not available.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Not available.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Not available.

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

Identified uses	
Analytical chemistry. 5 x 2 ml vials	
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	1 x 2 ml
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	1 x 2 ml
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	1 x 2 ml
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	1 x 2 ml
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	1 x 2 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Sulfa Drug LCMS OQPV Mixture Standard #1 0.0100 ug/ mL
		Sulfa Drug LCMS OQPV Mixture Standard #2 0.0250 ug/ mL
		Sulfa Drug LCMS OQPV Mixture Standard #3 0.1000 ug/ mL
		Sulfa Drug LCMS OQPV Mixture Standard #4 0.5000 ug/ mL
		Sulfa Drug LCMS OQPV Mixture Standard #5 1.0000 ug/ mL

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

Sulfa Drug LCMS OQPV

Standard #1 0.0100 ug/mL

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV

Standard #2 0.0250 ug/mL

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV

Standard #3 0.1000 ug/mL

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV

Standard #4 0.5000 ug/mL

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV

Standard #5 1.0000 ug/mL

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL



Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL



Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL



Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL



Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL



Signal word

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL Danger
 Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL Danger
 Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL Danger
 Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL Danger
 Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL Danger

Hazard statements

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL
 H225 - Highly flammable liquid and vapour.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H370 - Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL
 H225 - Highly flammable liquid and vapour.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H370 - Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL
 H225 - Highly flammable liquid and vapour.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H370 - Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL
 H225 - Highly flammable liquid and vapour.

SECTION 2: Hazards identification

mL	H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs. H225 - Highly flammable liquid and vapour.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.

Precautionary statements

Prevention

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Response

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 2: Hazards identification

	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	P405 - Store locked up.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	P405 - Store locked up.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	P405 - Store locked up.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	P405 - Store locked up.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	P405 - Store locked up.
Disposal	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	- methanol
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	- methanol
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	- methanol
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	- methanol
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	- methanol
Supplemental label elements	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not applicable.

SECTION 2: Hazards identification

	mL	
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Not applicable.

Special packaging requirements

Tactile warning of danger	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	None known.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	None known.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	None known.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	None known.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Mixture
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Mixture
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Mixture
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Mixture
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - ≤30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

Type

SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL
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. If necessary, call a poison center or physician.
- Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL
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. If necessary, call a poison center or physician.
- Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL
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. If necessary, call a poison center or physician.
- Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL
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. If necessary, call a poison center or physician.
- Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL
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. If necessary, call a poison center or physician.

Inhalation

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL
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. 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.
- Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL
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. 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.
- Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL
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

SECTION 4: First aid measures

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. 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.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

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. 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.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

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. 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.

Skin contact

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

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. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

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. If necessary, call a poison center or physician. Wash clothing

SECTION 4: First aid measures

Ingestion

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

before reuse. Clean shoes thoroughly before reuse.

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.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

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

SECTION 4: First aid measures

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.

Protection of first-aiders	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV	No known significant effects or critical hazards.

SECTION 4: First aid measures

	Standard #5 1.0000 ug/ mL	
Inhalation	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Harmful if inhaled.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Harmful if inhaled.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Harmful if inhaled.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Harmful if inhaled.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Harmful if inhaled.
Skin contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Harmful in contact with skin.
Ingestion	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	No specific data.

SECTION 4: First aid measures

	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.
Inhalation	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.
Skin contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.
Ingestion	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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	Standard #4 0.5000 ug/ mL	immediately if large quantities have been ingested or inhaled.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	No specific treatment.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	No specific treatment.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	No specific treatment.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	No specific treatment.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Do not use water jet.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Do not use water jet.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Do not use water jet.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Do not use water jet.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

Hazards from the substance or mixture	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Highly flammable liquid and vapour. 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.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Highly flammable liquid and vapour. 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.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Highly flammable liquid and vapour. 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.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Highly flammable liquid and vapour. 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.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Highly flammable liquid and vapour. 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 combustion products	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
5.3 Advice for firefighters		
Special precautions for fire-fighters	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	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.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	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

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	risk. Use water spray to keep fire-exposed containers cool. 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.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	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.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	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.
: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

SECTION 6: Accidental release measures

Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL

If specialised 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".

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL

If specialised 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".

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL

If specialised 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".

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL

If specialised 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".

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL

If specialised 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".

6.2 Environmental precautions

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL

Avoid dispersal of spilt 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).

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

SECTION 6: Accidental release measures

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	(sewers, waterways, soil or air). Avoid dispersal of spilt 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).
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Avoid dispersal of spilt 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).
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Avoid dispersal of spilt 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 material for containment and cleaning up

Methods for cleaning up	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	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.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	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.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
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SECTION 7: Handling and storage

	<p>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.</p>
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	<p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.</p>
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	<p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.</p>
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	<p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.</p>
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	<p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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</p>

SECTION 7: Handling and storage

Advice on general occupational hygiene

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

(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.

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.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

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.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

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

Storage

: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	500	5000
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	500	5000
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	500	5000
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	500	5000
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	500	5000

Danger criteria

SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000

7.3 Specific end use(s)

Recommendations

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Industrial applications, Professional applications.
- : Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Industrial applications, Professional applications.
- : Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Industrial applications, Professional applications.
- : Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Industrial applications, Professional applications.
- : Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Industrial applications, Professional applications.

Industrial sector specific solutions

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Not applicable.
- : Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Not applicable.
- : Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Not applicable.
- : Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Not applicable.
- : Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the

SECTION 8: Exposure controls/personal protection

measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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: safety glasses with side-shields.

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. 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

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 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Liquid.
	: Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Liquid.
	: Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Liquid.
	: Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Liquid.
	: Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Liquid.
Colour	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Colourless. / Clear.
	: Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Colourless. / Clear.
	: Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Colourless. / Clear.
	: Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Colourless. / Clear.
	: Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Colourless. / Clear.
Odour	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Alcohol-like.
	: Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Alcohol-like.
	: Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Alcohol-like.
	: Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Alcohol-like.
	: Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Alcohol-like.
Odour threshold	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	: Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	: Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	: Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	: Sulfa Drug LCMS	Not available.

SECTION 9: Physical and chemical properties

		OQPV Standard #5 1. 0000 ug/mL	
pH	:	Sulfa Drug LCMS OQPV Standard #1 0. 0100 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #2 0. 0250 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #3 0. 1000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #4 0. 5000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #5 1. 0000 ug/mL	Not available.
Melting point/freezing point	:	Sulfa Drug LCMS OQPV Standard #1 0. 0100 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #2 0. 0250 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #3 0. 1000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #4 0. 5000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #5 1. 0000 ug/mL	Not available.
Initial boiling point and boiling range	:	Sulfa Drug LCMS OQPV Standard #1 0. 0100 ug/mL	64 to 65°C
		Sulfa Drug LCMS OQPV Standard #2 0. 0250 ug/mL	64 to 65°C
		Sulfa Drug LCMS OQPV Standard #3 0. 1000 ug/mL	64 to 65°C
		Sulfa Drug LCMS OQPV Standard #4 0. 5000 ug/mL	64 to 65°C
		Sulfa Drug LCMS OQPV Standard #5 1. 0000 ug/mL	64 to 65°C
Flash point	:	Sulfa Drug LCMS OQPV Standard #1 0. 0100 ug/mL	Closed cup: 12.22°C
		Sulfa Drug LCMS OQPV Standard #2 0. 0250 ug/mL	Closed cup: 12.22°C
		Sulfa Drug LCMS OQPV Standard #3 0. 1000 ug/mL	Closed cup: 12.22°C
		Sulfa Drug LCMS OQPV Standard #4 0. 5000 ug/mL	Closed cup: 12.22°C
		Sulfa Drug LCMS OQPV Standard #5 1.	Closed cup: 12.22°C

SECTION 9: Physical and chemical properties

	0000 ug/mL	
Evaporation rate	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Flammability (solid, gas)	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not applicable.
Upper/lower flammability or explosive limits	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Vapour pressure	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.

SECTION 9: Physical and chemical properties

		0000 ug/mL	
Vapour density	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Relative density	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	0.937
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	0.937
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	0.937
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	0.937
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	0.937
Solubility(ies)	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Easily soluble in the following materials: cold water and hot water.
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Easily soluble in the following materials: cold water and hot water.
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Easily soluble in the following materials: cold water and hot water.
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Easily soluble in the following materials: cold water and hot water.
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.

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SECTION 9: Physical and chemical properties

Auto-ignition temperature	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Decomposition temperature	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Viscosity	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.
Explosive properties	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not available.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific test data related to reactivity available for this product or its ingredients.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific test data related to reactivity available for this product or its ingredients.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific test data related to reactivity available for this product or its ingredients.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific test data related to reactivity available for this product or its ingredients.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	The product is stable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	The product is stable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	The product is stable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	The product is stable.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	The product is stable.
10.3 Possibility of hazardous reactions	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Under normal conditions of storage and use, hazardous reactions will not occur.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

Standard #3 0.1000 ug/ mL	reactions will not occur.
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Under normal conditions of storage and use, hazardous reactions will not occur.
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Reactive or incompatible with the following materials: oxidizing materials
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Reactive or incompatible with the following materials: oxidizing materials
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Reactive or incompatible with the following materials: oxidizing materials
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Reactive or incompatible with the following materials: oxidizing materials
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Reactive or incompatible with the following materials: oxidizing materials

10.6 Hazardous decomposition products	:	Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/ mL	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/ mL	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/ mL	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/ mL	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/ mL	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 10: Stability and reactivity

mL

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Acute toxicity estimates

Route	ATE value
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Oral Dermal Inhalation (vapours)	394.3 mg/kg 1182.8 mg/kg 11.83 mg/l
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Oral Dermal Inhalation (vapours)	394.3 mg/kg 1182.8 mg/kg 11.83 mg/l
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Oral Dermal Inhalation (vapours)	394.3 mg/kg 1182.8 mg/kg 11.83 mg/l
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 11: Toxicological information

Oral	394.3 mg/kg
Dermal	1182.8 mg/kg
Inhalation (vapours)	11.83 mg/l
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	
Oral	394.3 mg/kg
Dermal	1182.8 mg/kg
Inhalation (vapours)	11.83 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	Category 1	Not determined	Not determined
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	Category 1	Not determined	Not determined
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	Category 1	Not determined	Not determined
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	Category 1	Not determined	Not determined
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	Category 1	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Routes of entry anticipated: Oral, Dermal, Inhalation.
- : Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Routes of entry anticipated: Oral, Dermal, Inhalation.
- : Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Routes of entry anticipated: Oral, Dermal, Inhalation.
- : Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Routes of entry anticipated: Oral, Dermal, Inhalation.
- : Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation

- : Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Harmful if inhaled.
- : Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Harmful if inhaled.
- : Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Harmful if inhaled.
- : Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Harmful if inhaled.
- : Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Harmful if inhaled.

SECTION 11: Toxicological information

Ingestion	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Harmful if swallowed.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Harmful if swallowed.
Skin contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Harmful in contact with skin.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Harmful in contact with skin.
Eye contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.

SECTION 11: Toxicological information

Ingestion	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.
Skin contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.
Eye contact	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No specific data.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No specific data.

Delayed and immediate effects as well as 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

SECTION 11: Toxicological information

General	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.
Carcinogenicity	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.
Mutagenicity	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.
Teratogenicity	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Developmental effects	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.
Fertility effects	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	No known significant effects or critical hazards.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	No known significant effects or critical hazards.
Other information	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Methanol	-0.77	<10	low
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL Methanol	-0.77	<10	low
Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL Methanol	-0.77	<10	low
Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL Methanol	-0.77	<10	low
Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL Methanol	-0.77	<10	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.




Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Methanol)	FLAMMABLE LIQUID, N.O.S. (Methanol)	Flammable liquid, n.o.s. (Methanol)
14.3 Transport hazard class(es)	3 	3 	3 
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

Additional information

Remarks: Excepted Quantity

ADR/RID : **Hazard identification number** 33
Limited quantity 1 L
Special provisions 601, 274, 640D
Tunnel code (D/E)

IMDG : **Emergency schedules** F-E, _S-E_
Special provisions 274

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.
Special provisions A3
Remarks Excepted Quantity

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL	Not applicable.
	Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name

Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

Methanol

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

Methanol

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

Methanol

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

Methanol

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

Methanol

Danger criteria

Category

Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

H3: STOT Single exposure 1

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

H3: STOT Single exposure 1

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

H3: STOT Single exposure 1

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

H3: STOT Single exposure 1

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

H3: STOT Single exposure 1

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

International regulations

Date of issue/Date of revision : 10/10/2017

SECTION 15: Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370	On basis of test data Calculation method Calculation method Calculation method Calculation method
Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL	

Date of issue/Date of revision : 10/10/2017

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 16: Other information

Flam. Liq. 2, H225
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
STOT SE 1, H370

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

Flam. Liq. 2, H225
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
STOT SE 1, H370

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

Flam. Liq. 2, H225
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
STOT SE 1, H370

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

Flam. Liq. 2, H225
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
STOT SE 1, H370

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Full text of abbreviated H statements

Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

H225
H301
H302
H311
H312
H331
H332
H370

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Toxic if inhaled.
Harmful if inhaled.
Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

H225
H301
H302
H311
H312
H331
H332
H370

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Toxic if inhaled.
Harmful if inhaled.
Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

H225
H301
H302
H311
H312
H331
H332
H370

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Toxic if inhaled.
Harmful if inhaled.
Causes damage to organs.

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 16: Other information

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

H225
H301
H302
H311
H312
H331
H332
H370

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Toxic if inhaled.
Harmful if inhaled.
Causes damage to organs.

Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

H225
H301
H302
H311
H312
H331
H332
H370

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Toxic if inhaled.
Harmful if inhaled.
Causes damage to organs.

[Full text of classifications \[CLP/GHS\]](#)

Sulfa Drug LCMS OQPV Standard #1 0.0100 ug/mL

Acute Tox. 3, H301
Acute Tox. 3, H311
Acute Tox. 3, H331
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Flam. Liq. 2, H225
STOT SE 1, H370

ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV Standard #2 0.0250 ug/mL

Acute Tox. 3, H301
Acute Tox. 3, H311
Acute Tox. 3, H331
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Flam. Liq. 2, H225
STOT SE 1, H370

ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV Standard #3 0.1000 ug/mL

Acute Tox. 3, H301
Acute Tox. 3, H311
Acute Tox. 3, H331
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Flam. Liq. 2, H225
STOT SE 1, H370

ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
FLAMMABLE LIQUIDS - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Sulfa Drug LCMS OQPV Standard #4 0.5000 ug/mL

Sulfa Drug LCMS OQPV Standards, Part Number 5188-6523

SECTION 16: Other information

Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Flam. Liq. 2, H225 STOT SE 1, H370	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
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Sulfa Drug LCMS OQPV Standard #5 1.0000 ug/mL

Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Flam. Liq. 2, H225 STOT SE 1, H370	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
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Date of previous issue : No previous validation.

Version : 1

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