

Safety Data Sheet

section

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

1.1 Product identifier

Trade name/designation : SensoLyte® 520 MMP-3 Assay Kit * Fluorimetric* ---- Components A and B contain DMSO ; Component C contains DMSO and APMA.
Article No (user) : AS-71152

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

Relevant identified uses : For research or laboratory use only. Not to be administered to humans or used for medical diagnostics.
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** Anaspec Inc.
Street: Campus drive 34801
Postal code/City: 94555 Fremont
Country: United States of America
Telephone: +1 510-791-9560
Telefax: +1 510-791-9572
Website: Www.anaspec.com
E-mail: Service@anaspec.com

1.4 Emergency Telephone Number

Contact your local poison center. See section 16.7.

section

2 Hazards identification

2.1 Classification of the substance or mixture

Hazards identification:

H300	Acute Tox. 2 ORAL	Fatal if swallowed.
H310	Acute Tox. 1 DERMAL	Fatal in contact with skin.
H330	Acute Tox. 2 INHALATION	Fatal if inhaled.
H373	STOT RE 2	May cause damage to organs through prolonged or repeated exposure
H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling

Hazard pictograms



Signal word

Danger

Hazard Statements

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Contains

Mercury, (acetato-O)(4-aminophenyl)-

2.3 Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

Composition/information on ingredients

3.2 Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
dimethyl sulfoxide - for Components A, B and C			
CAS N° 67-68-5	C ≤ 99.5%		
EC N° 200-664-3			
IDX N°			
Mercury, (acetato-O)(4-aminophenyl)- -for Component C			
CAS N° 6283-24-5	C ≤ 35.0%	* STOT RE 2; H373: C ≥ 0,1 %	H300 Fatal if swallowed. H310 Fatal in contact with skin. H330 Fatal if inhaled. H373 May cause damage to organs through prolonged or repeated exposure
EC N° 228-497-1			H400 Very toxic to aquatic life.
IDX N° 080-004-00-7			H410 Very toxic to aquatic life with long lasting effects.

3.3 Remark

Text phrases and H- EUH-: see section 16.

4 First aid measures

4.1 Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

Following inhalation:

No special measures are necessary.

Provide fresh air.

Remove person to fresh air and keep comfortable for breathing.

If the victim is unconscious but breathing normally, place her in recovery position and seek medical advice.

No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.

If breathing is irregular or stopped, administer artificial respiration.

After inhaling vapours the first signs of poisoning can show up hours later, so always consult a doctor.

Following skin contact:

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing.

Following eye contact:

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Self-protection of the first aider:

No special measures are necessary.

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam.

Extinguishing powder.

Carbon dioxide (CO₂).

Sand.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

section 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

No special measures are necessary.

Use personal protection equipment.

Remove persons to safety.

Use appropriate respiratory protection.

Provide adequate ventilation.

6.2 Environmental precautions

Ensure that waste is collected and contained.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Avoid release to the environment.

Cover drains.

Ensure all waste water is collected and treated via a waste water treatment plant.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

Contain leaks or spills within cabinets with removable trays.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Ventilate affected area.

Collect spillage.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Wipe up with absorbent material (eg. cloth, fleece).

6.4 Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

6.5 Additional information

Not available

section 7 Handling and Storage

7.1 Precautions for safe handling

Do not get in eyes, on skin, or on clothing.
Avoid exposure - obtain special instructions before use.
Use only outdoors or in a well-ventilated area.

PROTECTIVE MEASURES:

No special measures are necessary.
Avoid contact with skin, eyes and clothes.
Only allow access to authorised staff.
Do not eat, drink or smoke when using this product.
Wear personal protective clothing (see section 8).
Do not put any product-impregnated cleaning rags into your trouser pockets.
Use only in well-ventilated areas.
If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
Provide adequate ventilation as well as local exhaustion at critical locations.
Sewers and ducts must be protected against the entry of the product.
Provide for retaining containers, eg. floor pan without outflow.
Do not breathe gas/fumes/vapour/spray.

Advices on general occupational hygiene:

Wash hands before breaks and after work.
Street clothing should be stored separately from work clothing.
Wash contaminated clothing before reuse.
Remove contaminated, saturated clothing immediately.
Work in well ventilated zones or use proper respiratory protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.
Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels:

Store locked up.
Ensure adequate ventilation of the storage area.
Use isolated drainage to prevent discharge to soil.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

section 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2 Exposure controls

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment:



Eye/face protection

- : **Suitable eye protection:**
No special measures are necessary.
Wear eye protection equipment.
- Recommended eye protection articles:**
Face protection shield.

Skin protection

- : **Hand protection:**
Suitable gloves type:
No special measures are necessary.
Wear protective gloves.
Suitable material:
NBR (nitrile rubber).
Additional hand protection measures:
Do not wear gloves near machines and rotating tools.
Use gloves only once.
- Remark:**
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection

- : **Body protection:**
Suitable protective clothing:
No special measures are necessary.
Lab coat.
Chemical resistant safety shoes.
- : **Respiratory protection necessary at:**
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Suitable respiratory protection apparatus:
No data available.
Wear respiratory protection.
- Remark:**
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Observe the wear time limits as specified by the manufacturer.

Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls:

No special measures are necessary.

Consumer exposure controls:

Not available

8.3 Additional information

Not available

section 9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Not available
Odour	:	Not available
Odour threshold	:	Not available
pH	:	Component D = 7.5 - Component E = 8
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	Not available
Flash point	:	Not available
Evaporation rate	:	Not available
Flammability	:	Not available
Upper/lower flammability or explosive limits	:	Not available
Vapour pressure	:	Not available
Vapour density	:	Not available
Relative density	:	Not available
Solubility(ies)	:	Not available
Partition coefficient n-octanol/water (log value)	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Kinematic viscosity	:	Not available
Explosive properties	:	Not available
Oxidising properties	:	Not available
Solubility in other Solvents	:	Not available
Log Kow	:	Not available
Particle characteristics	:	Not available

9.2 Other safety information

section 10 Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

10.7 Additional information

Not available

section 11 Toxicological information

11.1 Acute oral toxicity

The product is not classified.

The product is classified Acute Tox. 2_ORAL according to the referenced regulation.

Fatal if swallowed.

ATE "Sensolyte® 520 MMP-3 Assay Kit * Fluorimetric*" = 14.285714285714286 mg/kg.

Data for mixture:

Not available

Substances:

Not available

11.2 Acute dermal toxicity

The product is not classified.

The product is classified Acute Tox. 1_DERMAL according to the referenced regulation.

Fatal in contact with skin.

ATE "Sensolyte® 520 MMP-3 Assay Kit * Fluorimetric*" = 14.285714285714286 mg/kg.

Data for mixture:

Not available

Substances:

Not available

11.3 Acute inhalation toxicity

The product is not classified.

The product is classified Acute Tox. 2_INHALATION according to the referenced regulation.

Fatal if inhaled.

ATE "Sensolyte® 520 MMP-3 Assay Kit * Fluorimetric*" = 1.4285714285714286 mg/kg.

Data for mixture:

Not available

Substances:

Not available

11.4 Skin corrosion/irritation

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.5 Serious eye damage/irritation

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.6 Skin sensitisation

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.7 Specific target organ toxicity (repeated exposure)

The product is not classified.

The product is classified STOT RE 2 according to the referenced regulation.

May cause damage to organs through prolonged or repeated exposure.

Data for mixture:

Not available

Substances:

Not available

11.8 Specific target organ toxicity (single exposure)

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.9 Carcinogenicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.10 Reproductive toxicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.11 Germ cell mutagenicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.12 Sensitisation to the respiratory tract

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.13 Additional information

Not available

11.14 Information on other hazards

Endocrine disrupting properties:

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

section 12 Ecological information

12.1 Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Data for mixture:

Not available

Substances:

Not available

12.2 Persistence and degradability

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.3 Bioaccumulative potential

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.4 Mobility in soil

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.5 Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

12.6 Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7 Other adverse effects

Not available

12.8 Additional ecotoxicological information

Not available

section 13 Disposal considerations**13.1 Waste treatment methods****Product/Packaging disposal:****Waste codes/waste designations according to EWC/AVV:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options:**Appropriate disposal/Product:**

Dispose of waste according to applicable legislation.

Waste requiring special supervision.

Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

Remark:

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste it has to be checked, whether a transport authorisation is required.

13.2 Additional information

Not available

section 14 Transport information

14.1 UN number

The product is not hazardous according to the applicable transport regulations.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Not regulated.

14.6 Special precautions for user

Not regulated.

14.7 Bulk shipping according to IMO instruments

Not regulated.

14.8 Additional information

Not available

section **15** Regulatory information

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

EU legislation:

REACH: Annex XVII (Restrictions):

Substance	CAS	EC
Mercury, (acetato-O)(4-aminophenyl)-	6283-24-5	228-497-1

National regulations:

California proposition 65:

Substance	CAS	EC
Mercury, (acetato-O)(4-aminophenyl)-	6283-24-5	228-497-1

15.2 Chemical Safety Assessment

For this substance/mixture a chemical safety assessment is not required.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3 Additional information

Not available

section **16** Other information

16.1 Indication of changes

Not applicable (first edition of the MSDS).

16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods Code.
 DPD Dangerous Preparation Directive.
 UN number: United Nations number.
 No EC: European Commission Number.
 ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.
 ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.
 CLP: Classification, labeling and packaging.
 VPvB: very persistent and very bioaccumulative substances.

16.3 Key literature references and sources for data

No data available.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5 Relevant R-, H- and EUH-phrases (Number and full text)











H300	Acute Tox. 2 ORAL	Fatal if swallowed.
H310	Acute Tox. 1 DERMAL	Fatal in contact with skin.
H330	Acute Tox. 2 INHALATION	Fatal if inhaled.
H373	STOT RE 2	May cause damage to organs through prolonged or repeated exposure
H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7 Additional information

Emergency phone number:

 Austria	13 11 26	 Latvia	+371 67042743
 Belgium	+32 (0)70 245 245	 Liechtenstein	112
 Bulgaria	+359 2 9154 409	 Lithuania	+370 8-5 236 20 52
 Croatia	+385 1 2348 342	 Luxembourg	8002-5500
 Cyprus	112	 Malta	112

 Czech Republic	+420 224 919 293 +420 224 915 402	 Netherlands	112 +32 (0)70 245 245
 Denmark	82 12 12 12	 Norway	22 59 13 00
 Estonia	16 662 +372 7943 794	 Poland	112
 Finland	09 471 977	 Portugal	808250143
 France	+33 (0)1 45 42 59 59	 Romania	112
 Germany	112 +32 (0)70 245 245	 Slovakia	+421 2 5477 4166
 Greece	+30 210 77 93 777	 Slovenia	112
 Hungary	+36 80 201 199	 Spain	+34 91 562 04 20
 Iceland	112 +543 2222 +543 1000	 Switzerland	145
 Ireland	+353 (0)1 809 2166	 Sweden	112 (begär Giftinformation)
 Italy	+35 (0)2 6610 1029	 United Kingdom	111

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The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

SensoLyte® is a registered trademark of Anaspec, Inc.