

SAFETY DATA SHEET

1 – IDENTIFICATION OF SUBSTANCE / AGENT AND COMPANY / FIRM

Identification of substance / agent

Name: Alternative matrix for mass spectrometry

Product code: 3011

Use: Optimized matrix substance is intended for preparation of matrix solution for mass spectrometry.

Identification of company / firm

Name: DIAGNOSTICS s.r.o.

Address: Hodská 68, 924 01 Galanta

Tel.: +421 917 742 927

E-mail: info@diagnostics.sk

Emergency link

Organization: National toxicological information centre, Limbová 5, 833 05 Bratislava

Tel.: +421-2-54 774 166

2 – IDENTIFICATION OF HAZARDS

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Serious eye damage (Category 1), H318

Eye irritation (Category 2), H319

Long-term (chronic) aquatic hazard (Category 3), H412

Skin corrosion (Sub-category 1A), H314

2.2 Label elements**Labelling according Regulation (EC) No 1272/2008**

Pictogram:



Signal Word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P261 Avoid breathing mist or vapors.

P273 Avoid release to the environment.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Product contains acetonitrile and trifluoroacetic acid.

4 – FIRST AID MEASURES

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen fluoride

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

(see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

hygroscopic Store under inert gas.

Storage class

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1. no other specific uses are stipulated

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Butoject® (KCL 898)

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Splash contact

Material: Chloroprene

Minimum layer thickness: 0,65 mm

Break through time: 10 min

Material tested: KCL 720 Camapren®

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

State:	solid, liquid
Colour:	yellow dust, colourless solution
Odour:	organic solvent

10 – STABILITY AND REACTIVITY

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong bases

strong reducing agents

Risk of explosion with:

nitrates

perchlorates

perchloric acid

conc. sulfuric acid

with

Heat.

Risk of ignition or formation of inflammable gases or vapours with:

Oxidizing agents

Nitric acid

nitrogen dioxide

with

Catalyst

Generates dangerous gases or fumes in contact with:

Acids

10.4 Conditions to avoid

Warming, heating

10.5 Incompatible materials

rubber, various plastics, strong oxidizing agents, metals

10.6 Hazardous decomposition products

In the event of fire: see section 5

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

Quantitative data on the toxicity of the preparation are not available

Additional data:

There is no need to expect any toxic effects, if product is properly handled. Handle product with care usual for work with chemicals.

12 – ECOLOGICAL INFORMATION

Ecotoxicological effects:

There is no information available.

Additional ecological data:

There is no reason to expect ecological problems, if product is handled and used with proper caution and attention. Do not allow to enter waters, waste water, or soil

13 – DISPOSAL INFORMATION

Product:

Product disposal must be made according to official regulations.

Packaging:

Packaging disposal must be made according to official regulations.

14 – TRANSPORT INFORMATION

Product is not classified as dangerous according to transport regulations.

15 – REGULATORY INFORMATION

SDS according to directive EC 1907/2006 (REACH), and Commission Regulation (EU) No 2020/878

Version: 1.1

Product code: 3011

05.12.2022

This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, in CLP Regulation (EC) No 1272/2008 and in Annex II of Commission Regulation (EU) No 2015/830

Operating limits:

Take note of Dir 94/33/EC on the protection of young people at work

16 – OTHER INFORMATION

Full text of H-phrases used in document:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects

H225 Highly flammable liquid and vapor.

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H302 + H312 +H332 Harmful if swallowed, in contact with skin or if inhaled.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Information stated in this safety data sheet is based on current state of our knowledge.

It characterises product with consideration on adequate safety measures. It does not represent warranty of material properties.
