

SAFETY DATA SHEET

Microsorb LC columns with less than 10 ml ACN type solvent

Section 1. Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name : Microsorb LC columns with less than 10 ml ACN type solvent

Part no. : A099MG, A104MG, CP28160, CP30704, CP30705, CP30710, CP30712, CP30713, CP30714, CP30715, CP30722, CP30731, CP30734, CP30758, CP30759, CP912347, R0086200C5, R0086200C8, R0086200D5, R0086200E3, R0086200F3, R0086203C5, R0086300C5, R0086300C8, R0086300D5, R0086300E3, R0086300F3, R0086303C5, R0086503C5, R0086D00C5, R0086D00D5, R0086D00E3, R0089200C5, R0089200D5, R0089200E3, R0089203C5, R00892N0D5, R0089300C5, R0089300D5, R0089503C5, R0089D00C5, 79925SB-564, 79925MO-564-3, 79925MO-584, 79925OD-564-3, 79925OD-584, 79925ODE-564, 79925ODE-584, 79925SB-56K, 79925SB-58K, 7995108-344, 7995108-585, 7995108-595, 7995118-344, 7995118-585, 7995118-595, 7995208-344, 7995208-585, 7995208-595, 7995218-344, 7995218-585, 7995218-595, 79925SB-584

Validation date : 5/20/2025

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

Identified uses : Analytical chemistry.
HPLC column

A099MG	MetaGuard 4.6mm Microsorb 100A 3u C18, 0.2 ml tube, 0.1 ml solvent
A104MG	MetaGuard 4.6mm Microsorb 100A 5u C18, 0.2 ml tube, 0.1 ml solvent
CP28160	Microsorb 100-10 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
CP30704	Microsorb 100 - 3 C18, S100x4.6 COL, 1.7 ml tube, 1.0 ml solvent
CP30705	Microsorb 100 - 3 C18, S100 4.6 REPL, 1.7 ml tube, 1.0 ml solvent
CP30710	Microsorb 100 - 5 C18, S150x4.6 COL, 2.5 ml tube, 1.5 ml solvent
CP30712	Microsorb 100 - 5 C18, S150 4.6 REPL3, 2.5 ml tube, 1.5 ml solvent
CP30713	Microsorb 100 - 5 C18, S250x4.6 COL, 4.2 ml tube, 2.5 ml solvent
CP30714	Microsorb 100 - 5 C18, S250 4.6 REPL, 4.2 ml tube, 2.5 ml solvent
CP30715	Microsorb 100 - 5 C18, S250 4.6 REPL3, 4.2 ml tube, 2.5 ml solvent
CP30722	Microsorb 100 - 3 C8, S50x4.6 COL, 0.8 ml tube, 0.5 ml solvent
CP30731	Microsorb 100 - 5 C8, S150x4.6 COL, 2.5 ml tube, 1.5 ml solvent
CP30734	Microsorb 100 - 5 C8, S250x4.6 COL, 4.2 ml tube, 2.5 ml solvent
CP30758	Microsorb 100 - 5 Phenyl, S250x4.6 COL, 4.2 ml tube, 2.5 ml solvent
CP30759	Microsorb 100 - 5 Phenyl, S250x4.6 REP, 4.2 ml tube, 2.5 ml solvent
CP912347	Microsorb 100-3 C18 30 x 4.6mm Conv., 0.5 ml tube, 0.3 ml solvent
R0086200C5	Microsorb-MV 100-5 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086200C8	Microsorb-MV 100-8 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086200D5	Microsorb-MV 100-5 C18 150 x 4.6mm, 2.5 ml tube, 1.5 ml solvent
R0086200E3	Microsorb-MV 100-3 C18 100 x 4.6mm, 1.7 ml tube, 1.0 ml solvent
R0086200F3	Microsorb-MV 100-3 C18 50 x 4.6mm, 0.8 ml tube, 0.5 ml solvent
R0086203C5	Microsorb-MV 300-5 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086300C5	Microsorb-MV 100-5 C8 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086300C8	Microsorb-MV 100-8 C8 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086300D5	Microsorb-MV 100-5 C8 150 x 4.6mm, 2.5 ml tube, 1.5 ml solvent
R0086300E3	Microsorb-MV 100-3 C8 100 x 4.6mm, 1.7 ml tube, 1.0 ml solvent
R0086300F3	Microsorb-MV 100-3 C8 50 x 4.6mm, 0.8 ml tube, 0.5 ml solvent
R0086303C5	Microsorb-MV 300-5 C8 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086503C5	Microsorb-MV 300-5 C4 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086D00C5	Microsorb-MV 100-5 Phenyl 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0086D00D5	Microsorb-MV 100-5 Phenyl 150 x 4.6mm, 2.5 ml tube, 1.5 ml solvent
R0086D00E3	Microsorb-MV 100-3 Phenyl 100 x 4.6mm, 1.7 ml tube, 1.0 ml solvent
R0089200C5	Microsorb 100-5 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0089200D5	Microsorb 100-5 C18 150 x 4.6mm, 2.5 ml tube, 1.5 ml solvent

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R0089200E3	Microsorb 100-3 C18 100 x 4.6mm, 1.7 ml tube, 1.0 ml solvent
R0089203C5	Microsorb 300-5 C18 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R00892N0D5	Microsorb 100-5 C18 150 x 2.0mm, 0.5 ml tube, 0.3 ml solvent
R0089300C5	Microsorb 100-5 C8 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0089300D5	Microsorb 100-5 C8 150 x 4.6mm, 2.5 ml tube, 1.5 ml solvent
R0089503C5	Microsorb 300-5 C4 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
R0089D00C5	Microsorb 100-5 Phenyl 250 x 4.6mm, 4.2 ml tube, 2.5 ml solvent
79925SB-564	LiChrospher 60 RP-select B 5um 125 x 4mm
79925MO-564-3	LiChrospher 100-5 RP8 125 x 4.0mm 3/pk
79925MO-584	Lichrospher RP-8
79925OD-564-3	LICHROSPHER RP-C18 125mm
79925OD-584	Lichrosphere RP-18 250 x 4 mn id
79925ODE-564	Lichrospher 100 RP-18E 5um, 125 x 4mm
79925ODE-584	Lichrospher 100 RP-18E 5um, 250 x 4mm
79925SB-56K	Lichrospher select B 5um 125 x 4mm 3/PK
79925SB-58K	Lichrospher select B 5um 250 x 4mm 3/PK
7995108-344	Eclipse XDB-C8, 3.5um, 4.6 x 75mm cart
7995108-585	Eclipse XDB-C8, 5um, 4.6 x 250mm cart
7995108-595	Eclipse XDB-C8, 5um, 4.6 x 150mm cart
7995118-344	Eclipse XDB-C18, 3.5um, 4.6 x 75mm cart
7995118-585	Eclipse XDB-C18, 5um, 4.6 x 250mm cart
7995118-595	Eclipse XDB-C18, 5um, 4.6 x 150mm cart
7995208-344	StableBond SB-C8, 3.5um, 4.6 x 75mm cart
7995208-585	StableBond SB-C8, 5um, 4.6 x 250mm cart
7995208-595	StableBond SB-C8, 5um, 4.6 x 150mm cart
7995218-344	StableBond SB-C18, 3.5u, 4.6 x 75mm cart
7995218-585	StableBond SB-C18, 5u, 4.6 x 250mm cart
7995218-595	StableBond SB-C18, 5u, 4.6 x 150mm cart
79925SB-584	LiChrospher 60 RP-select B 5um 250 x 4mm

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

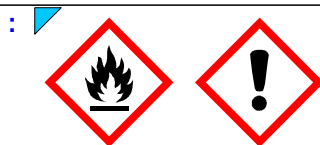
Classification of the substance or mixture

H225 FLAMMABLE LIQUIDS - Category 2
H319 EYE IRRITATION - Category 2A

2.2 GHS label elements

Section 2. Hazards identification

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: P280 - Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P233 - Keep container tightly closed.

Response

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage

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

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Substance/mixture : Mixture (encapsulated in article)

Ingredient name	%	Identifiers
Acetonitrile	≥10 - <25	CAS: 75-05-8

Contains: Organosilane bonded silica gel.

Note: To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. 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 thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides
cyanides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : 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

- : 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

Section 8. Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Acetonitrile	<p>NIOSH REL (United States, 10/2020) TWA 10 hours: 20 ppm. TWA 10 hours: 34 mg/m³.</p> <p>CAL OSHA PEL (United States, 5/2018) Absorbed through skin. STEL 15 minutes: 105 mg/m³. STEL 15 minutes: 60 ppm. TWA 8 hours: 70 mg/m³. TWA 8 hours: 40 ppm.</p> <p>OSHA PEL (United States, 5/2018) TWA 8 hours: 40 ppm. TWA 8 hours: 70 mg/m³.</p> <p>OSHA PEL 1989 (United States, 3/1989) TWA 8 hours: 40 ppm. TWA 8 hours: 70 mg/m³. STEL 15 minutes: 60 ppm. STEL 15 minutes: 105 mg/m³.</p>

Section 8. Exposure controls/personal protection

ACGIH TLV (United States, 1/2024) A4.
 Absorbed through skin.
 TWA 8 hours: 20 ppm.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: 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.

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.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Solid. (containing flammable liquid)
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Neutral.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: Not available.
Flash point	: <input checked="" type="checkbox"/> losed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.]
Evaporation rate	: Not available.
Flammability	: Contains: Flammable liquid.
Lower and upper explosion limit/flammability limit	: Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<input checked="" type="checkbox"/> Acetonitrile	70.88853	9.5	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density : Not available.

Relative density : Not available.

Solubility(ies)

Media	Result
Mobile phase	Soluble
Stationary phase	Insoluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
<input checked="" type="checkbox"/> Acetonitrile	524	975.2	-

Decomposition temperature : Not available.

Viscosity

ynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials
Incompatible with hydrogen fluoride.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	
Acetonitrile	Rat - Oral - LD50	2460 mg/kg
	Rat - Inhalation - LC50 Vapor	17100 ppm [4 hours]

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Ingredient name

Conclusion/Summary

Acetonitrile

May cause respiratory irritation.

Respiratory or skin sensitization

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Section 11. Toxicological information

Reproductive toxicity

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Section 11. Toxicological information

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Microsorb LC columns with less than 10 ml ACN type solvent	2083.3	4583.3	N/A	45.8	N/A
Acetonitrile	500	1100	N/A	11	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name

Result

Acetonitrile	Acute - LC50 - Fresh water	3600 mg/l [48 hours]
	Acute - IC50 - Fresh water	3685 mg/l [96 hours]
	Chronic - NOEC - Fresh water	160 mg/l [21 days]
	Chronic - NOEC - Fresh water	1000 mg/l [96 hours]
	Acute - LC50 - Fresh water	1000 mg/l [96 hours]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name

Result

Acetonitrile	OECD [Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)]	70% [21 days] - Readily -
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Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Acetonitrile	-0.34	3	Low

12.4 Mobility in soil

Soil/Water partition coefficient : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Acetonitrile (I,T)	75-05-8	Listed	U003

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

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

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

Section 14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Remarks: Special provisions

DOT: 47

TDG: 56

MX: 216

IATA: A46

IMDG: 216

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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **Clean Water Act (CWA) 307**: Acetonitrile

TSCA 12(b) - Chemical export notification

Not applicable.

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : **FLAMMABLE LIQUIDS - Category 2**
EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
Organosilane bonded silica gel Acetonitrile	≥50 - ≤75 ≥10 - <25	COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Acetonitrile	75-05-8	≥10 - <25
Supplier notification	Acetonitrile	75-05-8	≥10 - <25

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

State regulations

Massachusetts : The following components are listed: ACETONITRILE

New York : The following components are listed: Acetonitrile

New Jersey : The following components are listed: ACETONITRILE

Pennsylvania : The following components are listed: ACETONITRILE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Section 15. Regulatory information

Not listed.

Montreal Protocol

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

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A	On basis of test data Calculation method

History

Date of issue/Date of revision	: 05/20/2025
Date of previous issue	: 04/25/2023
Version	: 7

Key to abbreviations

: ATE = Acute Toxicity Estimate
: BCF = Bioconcentration Factor
: DOT = Department of Transportation
: GHS = Globally Harmonized System of Classification and Labelling of Chemicals
: IATA = International Air Transport Association
: IBC = Intermediate Bulk Container
: IMDG = International Maritime Dangerous Goods
: IMO = International Maritime Organization
: LogPow = logarithm of the octanol/water partition coefficient
: MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
: N/A = Not available
: SGG = Segregation Group
: TDG = Transportation of Dangerous Goods

Section 16. Other information

UN = United Nations

✔ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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