



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

Product identifier:

Identification as on the label/Trade name: MMC Ketamine Test

Product number: KETA0110

Relevant identification uses of the substance and uses advised against:

Identified uses: Substance testing.

Uses advised against: No other uses are advised.

Details of the supplier of the Safety Data Sheet:

M.M.C. International B.V.
Frankenthalerstraat 16-18
4816 KA Breda, The Netherlands
Phone: +31-76-5711140, Fax: +31-76-5719300
Email: info@mmcinter.com
Website: www.narcotictests.com / narco-sens.eu

Emergency telephone numbers:

24-hour Emergency Contact: 112 / 911
National Poison Information Centre: +31-30-2748888

Section 2: Hazards Identification

Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories:

Flammable Liquid (Category 2)
Acute Toxicity (Category 5)
Skin Sensitizer (Category 1)
Eye Irritant (Category 2)
Mutagenic (Category 2)
Aquatic Chronic (Category 2)
Reproductive Toxicity (Category 1B)

Hazard Statement:

H225
H303
H317
H319
H341
H411
H360

Label elements:

Hazard pictograms:



Signal Words: Danger.

Hazard Statements:

H225 Highly flammable liquid and vapour.



H303 May be harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H360 May damage fertility.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P391 Collect spillage.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture.

Ingredients:

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
acetonitrile cyanomethane	75-05-8	10-20%	-	Flam. Liq. 2 H225 Acute Tox. 4 H302 Acute Tox. 4 H31 Eye Irrit. 2 H319 Acute Tox. 4 H332
	200-835-2			
cobalt di(acetate)	71-48-7	1-10%	Carc. 1B; H350i: C ≥ 0,01 % M=10	Skin Sens. 1 H317 Resp. Sens. 1 H334 Muta. 2 H341 Aqua Acute 1 H400 Aqua Chronic 1 H410 Carc. 1B H350i Repr. 1B H360F
	200-755-8			



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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.

Section 4: First-Aid Measures

Description of first aid measures:

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin contact: Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Contaminated leather, particularly footwear, must be discarded. Note that contaminated clothing may be a fire hazard. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. Keep person warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Resuscitate using a mouth-to-mask with one-way valve or with Ambu Bag. Get medical attention immediately. If symptoms of cyanide poisoning are evident, administer amyl nitrate by inhalation for 15-30 seconds every minute. Immediately inject 10 ml of a 3% solution of sodium nitrate intravenously over a period of 1 to 4 minutes.

Ingestion: Get immediate medical attention. Do not wait for symptoms to develop. Do not induce vomiting. If not breathing, ensure clear airway and institute cardiopulmonary resuscitation (CPR). Avoid mouth to mouth resuscitation. Use mouth to mask ventilation with one-way valve to exhaust victim's exhaled air away from rescuer. If breathing is difficult, ensure clear airway and give oxygen. If symptomatic, treat as described under Inhalation. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Not known.

Indication of any immediate medical attention and special treatment needed: Upon absorption and metabolism acetonitrile immediately begins a slow release of cyanide, which can continue for several hours. The toxic effects and associated clinical signs of cyanide poisoning may therefore be delayed. Take a blood sample in all cases for blood cyanide using fluoride/oxalate tube and chill immediately and arrange urgent analysis. Blood cyanide levels will take some time to become available, and are generally only useful as a retrospective indicator of exposure. Treatment decisions must therefore be based on the clinical features of each individual case, without waiting for blood cyanide results. If the patient is conscious and breathing normally, administration of oxygen is the only treatment necessary.

Section 5: Fire-Fighting Measures

Extinguisher media:

Extinguishing media: In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Hazardous decomposition products: Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), Hydrogen cyanide (HCN).

Unusual fire/explosion hazards: Highly flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Special fire-fighting procedures: DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from fire and let it burn. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows.



Protection of fire-fighters: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Immediately contact emergency personnel. Eliminate all ignition sources. Do not touch or walk through spilt material. Keep unnecessary personnel away. Follow all fire-fighting procedures. Use suitable protective equipment.

Methods for containment and cleaning up:

If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling. Cyanide poisoning first-aid (antidote) kits containing amyl nitrite ampules (or equivalent) must be available at the work site.

Conditions for safe storage, including incompatibilities:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls and Personal Protection

Control parameters:

Occupational exposure limits:

CAS No.	Ingredient	Value
75-05-8	Acetonitrile	STEL: 102 mg/m ³ 15 minutes
		STEL: 60 ppm 15 minutes
		TWA: 68 mg/m ³ 8 hours
		TWA: 40 ppm 8 hours

Exposure controls:

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Individual protection measures, such as personal protective equipment:

Respiratory system: Use with adequate ventilation. Do not breathe vapour or mist. If operating conditions cause high vapour concentrations or the TLV is exceeded, use supplied-air respirator.

Skin and body: Do not get on skin or clothing. Wear suitable protective clothing.



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Hands: Wear gloves that cannot be penetrated by chemicals or oil. (Butyl rubber gloves.) The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eyes: Avoid contact with eyes. Chemical splash goggles.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Pink.

Odour: Odourless.

Odour threshold: No data available.

pH (concentration): No data available.

Melting point/range (°C): No data available.

Boiling point/range (°C): No data available.

Flash point (°C): <23 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Ignition temperature (°C): No data available.

Upper/lower flammability/explosive limits: No data available.

Vapour pressure: No data available.

Vapour density: No data available.

Relative density: No data available.

Water solubility (g/L): Soluble.

n-Octanol/Water partition coefficient: No data available.

Auto-ignition temperature: No data available.

Viscosity, dynamic (mPa.s): No data available.

Section 10: Stability and Reactivity

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

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Take precautionary measures against static discharges.

Incompatibility with various substances: Incompatible with acids, bases, nitrating agents, nitrogen-fluorine compounds, oxidizers, perchlorates, sulphites.

Hazardous polymerisation: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Hazardous decomposition products: Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), Hydrogen cyanide (HCN).



Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity: May be harmful if swallowed.

Acetonitrile, CAS 75-05-8

LD50 469 - 765 mg/kg bw (mouse)

Skin corrosion/irritation: May cause an allergic skin reaction.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: No data available.

Reproductive toxicity: May damage fertility.

STOT-single exposure: No data available.

STOT-repeated exposure: No data available.

Aspiration hazard: No data available.

Section 12: Ecological Information

Toxicity: Toxic to aquatic life with long lasting effects.

Cobalt di(acetate), CAS 71-48-7

Short-term toxicity to fish: LC50 for freshwater fish 1.5 mg/L

Long-term toxicity to fish:

EC10 / LC10 or NOEC for freshwater fish 351.4 µg/L

EC10 / LC10 or NOEC for marine water fish 31.802 mg/L

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT& vPvB assessment: No data available.

Section 13: Disposal Considerations

Waste treatment methods: Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Comply with all local, regional, and national laws pertaining to waste management.

Product/packaging disposal: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR/RID)

UN number: 1648

Proper shipping name and description: Acetonitrile Solution

Class: 3

Packaging group: II

Labels: 3



Marine transport (IMDG)

UN number: 1648

Proper shipping name and description: Acetonitrile Solution

Class: 3

Packaging group: II

Labels: 3

Air transport ICAO/IATA

UN number: 1648

Proper shipping name and description: Acetonitrile Solution

Class: 3

Packaging group: II

Labels: 3

Section 15: Regulatory Information

EU regulations:

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Cobalt di(acetate), CAS 71-48-7

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use:

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Cobalt di(acetate), CAS 71-48-7



Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Cobalt di(acetate), CAS 71-48-7

Other EU regulations:

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Always applicable.

Directive 94/33/EC on the protection of young people at work

Cobalt di(acetate), CAS 71-48-7

Acetonitrile, CAS 75-05-8

Other regulations: The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations: Follow national regulation for work with chemical agents.

Chemical safety assessment: No Chemical Safety Assessment has been carried out.

Section 16: Other Information

Indication of changes: GHS aligned.

Relevant classification and H statements (number and full text):

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H350i May cause cancer by inhalation.

H360 May damage fertility.

Training instructions: Use as instructed.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.