

Acetonitrile

AH015-4PC

Version 2.7 Issuing date 12/03/2010 Rev

Revision Date 01/07/2021

Print Date 08/04/2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Acetonitrile

Number : 000000011306

Recommended use of the

chemical and restrictions on

use

Solvent

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

For further information,

please contact:

1-800-368-0050 +1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the : Flammable liquids, Category 2 substance or mixture : Acute toxicity, Category 4, Inhalation

Acute toxicity, Category 4, Inhalation Acute toxicity, Category 4, Oral Eye irritation, Category 2A

Specific target organ toxicity - single exposure, Category 1,

Central nervous system

GHS Label elements, including precautionary statements

Symbol(s) :







Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

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Harmful if swallowed.

Causes serious eye irritation.

Harmful if inhaled.

Causes damage to organs.

Precautionary statements

Prevention:

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed: Call a POISON CENTER or doctor/ physician. If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C2H3N



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Chemical nature : Substance

Chemical nameCAS-No.ConcentrationAcetonitrile75-05-8100.00 %Acetonitrile

4. FIRST AID MEASURES

Inhalation : Remove to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Use oxygen as required, provided a qualified operator is

present.

Call a physician.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

Call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Call a physician.

Ingestion : Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Immediate medical attention is required.

Notes to physician : Treat as cyanide poisoning.

Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Dry chemical

Alcohol-resistant foam

Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: Flammable.

Vapours may form explosive mixtures with air.

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Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

In case of fire hazardous decomposition products may be

produced such as:

Hydrogen cyanide (hydrocyanic acid)

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), dense black smoke.

Special protective equipment

for firefighters

Further information

: Wear self-contained breathing apparatus and protective suit.

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment.

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Environmental precautions

: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water

courses.

Methods and materials for containment and cleaning up

: Ventilate the area.

No sparking tools should be used. Use explosion-proof equipment.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Wear personal protective equipment.

Use only in well-ventilated areas. Keep container tightly closed.

Do not smoke.

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Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Advice on protection against

fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and sources of

ignition.

No sparking tools should be used.

No smoking.

Storage

Conditions for safe storage,

including any incompatibilities

: Store in area designed for storage of flammable liquids.

Protect from physical damage.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep away from heat and sources of ignition.

Keep away from direct sunlight.

Store away from incompatible substances.

Container hazardous when empty.

Do not pressurize, cut, weld, braze, solder, drill, grind or

expose containers to heat or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during and after use.

Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

For rescue and maintenance work in storage tanks use self-

contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hand protection : Solvent-resistant gloves

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Gloves must be inspected prior to use.

Replace when worn.

Eye protection : Do not wear contact lenses.

Wear as appropriate:

Safety glasses with side-shields If splashes are likely to occur, wear:

Goggles or face shield, giving complete protection to eyes

Skin and body protection : Wear as appropriate:

Solvent-resistant apron

Flame retardant antistatic protective clothing.

If splashes are likely to occur, wear:

Protective suit

Hygiene measures : When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the

product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : sweet ether-like

pH : Note: Not applicable

Melting point/range : -46 °C

Boiling point/boiling range : 82 °C at 1,013 hPa

Flash point : 55.0 °F (12.8 °C)

Method: closed cup

Evaporation rate : 5

Method: Compared to Butyl acetate.

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Lower explosion limit : 3 %(V)

Upper explosion limit : 16 %(V)

Vapour pressure : 97.3 hPa

at 20 °C(68 °F)

Vapour density : 1.42

Note: (Air = 1.0)

Density : 0.7822 g/cm3 at 20 °C

Water solubility : Note: completely soluble

Partition coefficient: n-

octanol/water

: Note: No data available

Ignition temperature : 524 °C

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 41 g/mol

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

Incompatible materials to : Acids

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avoid Bases

Oxidizing agents Reducing agents

Sulfites Perchlorates

May attack many plastics, rubbers and coatings.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as:

Hydrogen cyanide (hydrocyanic acid)

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), dense black smoke.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 617 mg/kg

Species: Mouse, male and female Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 3587 ppm, vapour

Exposure time: 4 h

Species: Mouse, male and female Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: Rabbit

Skin irritation : Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Exposure time: 4 h

Eye irritation : Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Sensitisation : Buehler Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

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Further information : STOT - single exposure: The substance or mixture is

> classified as specific target organ toxicant, single exposure, category 1. May cause convulsions. May cause neurotoxic

effects. Based on Human Evidence.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : flow-through test

LC50: 1,640 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to algae

Acetonitrile : static test

NOEC: 400 mg/l Exposure time: 72 h

Species: Phaeodactylum tricornutum

static test

ErC50: 9,696 mg/l Exposure time: 72 h

Species: Phaeodactylum tricornutum

13. DISPOSAL CONSIDERATIONS

Public Cleansing Law

WDPCL Waste Disposal and : Specially Controlled Industrial Waste

: In accordance with local and national regulations. Disposal methods

14. TRANSPORT INFORMATION

ADR

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UN/ID No. : UN 1648

Description of the goods : ACETONITRILE

Class : 3
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

IATA

UN/ID No. : UN 1648
Description of the goods : Acetonitrile

Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG

JP VSL

UN/ID No. : UN 1648

Description of the goods : ACETONITRILE

Class : 3
Packing group : II
Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-D

Marine pollutant : no

15. REGULATORY INFORMATION

National regulatory information

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and

storage of dangerous goods and its Attached Table 1)

Component : Acetonitrile 75-05-8

Aviation Law : Flammable liquid (Article 194 of The Enforcement Rules of

JP AVL Aviation Law and its Attached Table 1)

Component : Acetonitrile 75-05-8

Chemical Substance : Listed

Control Law Type II Monitoring Chemical Substance.

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DES (JP) Reference: (2)-1508

Component : Acetonitrile 75-05-8

Substances Subject to be

Notified Names JP MSDSD

Threshold Concentration: 1 % wt

Component : Acetonitrile 75-05-8

Act on Confirmation, etc. of

Release Amounts of Specific Chemical Substances in the

: Class I Designated Chemical Substances Reportable quantity 1 tons

Environment and Promotion of Improvements to the Management Thereof

PRTR CL1

Act on Confirmation, etc. of :

Release Amounts of Specific Chemical Substances in the

Threshold Concentration: 1 % wt

Environment and Promotion of Improvements to the Management Thereof

PRTR CL1

Component : Acetonitrile 75-05-8

Chemical Substance Control

Law

Type 2 Monitoring Chemicals (Designated substances)

Fire Service Law : Group 4 Flammable liquids

> Type 1 petroleums Hazardous rank II Water soluble Keep away from fire

Japan. ISHL Hazardous : Listed

Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6

Acetonitrile 75-05-8

April 2018)

: Listed Japan. SDS and Risk

Assessment Requirements Acetonitrile 75-05-8

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(ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2, Enforcement Rule Art. 34-2 and 34-2-2), as amended Poisonous and Deleterious

Substances Control Law

: Deleterious substance not for pharmaceutical use

32.3

Acetonitrile 75-05-8

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the **Environment and Promotion** of Improvements to the Management Thereof

: Class I Designated Chemical Substances

13

Acetonitrile 75-05-8

Other international regulations

Notification status

US. Toxic Substances

Control Act

: On TSCA Inventory

Australia. Industrial Chemical

(Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian

Environmental Protection Act

(CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List

: On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical

Substances (PICCS)

China. Inventory of Existing

(IECSC)

: On the inventory, or in compliance with the inventory

: On the inventory, or in compliance with the inventory

Chemical Substances

: On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand



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16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group