

ACETONITRILE

Creation Date: 2010-04-29

Revision: 2

Revision Date : 2019-06-10

CAS No.	KE No.	UN No.	EU No.	
75-05-8	KE-00067	1648	200-835-2	

I. Chemical Product and Company Identifica	tion
1. Product Name	Acetonitrile
2. Chemical Formula	CH ₃ CN
3. Manufacturer/Supplier Information	
Taekwang Industrial Co., Ltd.	
310, Dongho-Ro, Choong-Gu, Seoul, Kore	a.
C.P.O BOX : 11/3 Seoul	
Telex " PIGEON " K28219	
Fax. 82-2-2273-9160	
Tel. 82-2-3406-0300	
4. Emergency Contact Point	
Department	Taekwang Industrial Co., Ltd. Petrochemical 3rd Plant
	Safety & Environment (S & E) Team or
	Taekwang Industrial Co., Ltd.
	Petrochemical Sales Department
Tel. No.	S & E Team 82-52-259-9691 or
	Sales Department 82-2-3406-0334
II. Hazards Identification	
1. HealthHazard Classification	Flammable liquid : Category 2
	Acute Toxicity Substance(Combined Oral): Category 4
	Eye Damage/Irritation Substance : Category 2
	Specific Target Organ Systemic Toxicity Substance(Single Exposure) : Category 3 (Respiratory Irritation)
2. Danger/Hazard Symbol	
○ Danger/Hazard Symbol	
○ A Signal Word	Danger
○ Warning Statement	H225 Highly flammable liquid and vapour

H302 Toxic if swallowed

H319 Causes serious eye irritation H335 May cause respiratory irritation

Chemical Name	Acetonitrile
Synonym	CYANOMETHANE
CAS No.	75-05-8
Composition(%)	100%
V. First Aid Measures	
1. Eye Contact for Acetonitrile	Get immediate medical attention.
	Immediately flush with lots of water for at least 15 minutes.
2. Skin Contact for Acetonitrile	Removing contaminated clothing and shoes.
	Wash skin with lots of water for at least 15 minutes.
	If needed, Get medical attention.
	Completely clean and dry contaminated clothing before reuse.
3. Inhalation for Acetonitrile	Take the inhaled person to safe area and remove from exposure to fresh air.
	Immediately get medical attention.
	Perform artificial respiration if not breathing.
4. Ingestion for Acetonitrile	Contact local poison control center or physician immediately.
	If person is unconscious, turn head to side.
	If person is unconscious, never make him vomit or drink anything.
	When vomiting occurs spontaneously, keep head lower than hips to prevent acetonitr from inhaling the lungs.
	Get medical attention immediately.
5. Delayed and immediate effects	
Inhalation	
Short Term Exposure	Not Available
Long Term Exposure	Not Available
Ingestion	
Short Term Exposure	Not Available
Long Term Exposure	Not Available
Skin Contact Exposure	
Short Term Exposure	Not Available
Long Term Exposure	Not Available
Eye Contact	
Short Term Exposure	Not Available
Long Term Exposure	Not Available
6. First Aid and Note to Physician	If breathing is difficult, give oxygen.
	If swallowed, conduct gastric lavage.

V. Fire Fighting Measures

1. Extinguishing Media	
Adequate extinguishing media	Alcohol resistant foam.
	Regular dry chemical powder.
	Water.
	Carbon dioxide.
Inadequate extinguishing media	Not Available
Large Fire	Use alcohol resistant foam or flood with fine water spray
2. Specific Hazards Arising from the chemical	
Pyrolysis product	Not Available
Fire and Explosion Hazards	Severe fire hazard.
	Vapor/Air Mixtures are explosive.
	Vapor is heavier than air.
3. Fire Fighting	Move containers from fire area if this can be done without risk.
	Use water spray to keep fire-exposed containers cool.
	Stay away from the ends of tanks.

VI. Accidental Release Measures

1. Personal Precautions and Protective equipment	Stop leak if possible without personal risk.
	Do not touch spilled material.
	Do not touch or walk through spilled material.
	Reduce vapors with water spray.
2. Environmental precautions	
Air	Not Available
Soil	Not Available
Water	Not Available

VII. Handling & Storage Information

1. Safe Handling Information

2. Safe Storage Information

Store outside or in a detached building. Eliminate all ignition sources. Separate from oxidizing materials. Store in accordance with local regulations. Store with flammable liquids. VIII. Exposure Control & Personal Protection

1. Exposure Limit	
Korea Regulation	TWA - 20ppm 33mg/m3
ACGIH Regulation	TWA 20 ppm
Biological Exposure limit	Not Available
2. Adequate Exposure Control	Provide local exhaust or process enclosure ventilation system.
	Ensure compliance with applicabe exposure limit.
3. Personnel Protective Equipment	
Respirator	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection	Wear splash resistant safety goggles with a facepiece.
	Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Gloves	Wear appropriate chemical resistant gloves.
Clothing	Wear appropriate chemical resistant clothing.

IX. Physical and Chemical Properties

1. Physical State	Colorless liquid
2. Odor	Sweet Odor, Ether Odor
3. Odor Threshold	Not Available
4. pH	Not Available
5. Freezing Point	-46 °C
6. Boiling Point	82 °C
7. Flash point	12.8 °C (c.c.)
8. Evaporation Rate	5.79
9. Flammability(solid, gas)	Not Applicable
10. Upper/lower limit in Flammable or Explosion Range	16 / 3 %
11. Vapor Pressure	9.7 kPa (20°C)
12. Solubility	(soluble)
13. Vapor Density	1.4
14. Specific Gravity	0.8
15. n-Octanol/Water distribution coefficient	-0.3
16. Spontaneous Combustion Temperature	524 °C
17. Dissolution Temperature	Not Available
18. Viscosity	0.35 cP (20°C)
19. Molecular Weight	41.05

X. Stability and Reactivity	
1. Chemical Stability	- Under normal conditions of storage and use, the product is stable.
2. Possibility of hazardous reactions	- Under normal conditions of storage and use, polymerization will not occur.
3. Conditions to Avoid	- Avoid heat, flames, sparks and other sources of ignition.
4. Substance to aviod	- acids, metals, bases, oxidizing agent, combustible materials, reducing agent
5. Hazardous decomposition	- Thermal decomposition products : cyanide compounds, nitrogen oxide

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	In case of spills, emergency proced	ures class S-D

XV. Regulatory Information	
1. Regulation for Korea Industrial Safety and Health Act	Work Environment Measurement Required Substance
	Regulated Substance
	Specially Controlled Substance
2. Regulation of Korea Chemicals Control Act	Not Available
3. Regulation for Korea Fire Services Act	Category VI Petrochemical Class 1(Water-soluble liquids) 4001
4. Korea Wastes Control Act	Not Available
5. High-Pressure Gas Safety Control Act	Toxic Gas/ Combustible Gas
6. Other Regulation	
1) Other Domestic Regulation	
Persistent Organic Pollutants Administration Law	Not Applicable
Hazardous and Noxious Substances (HNS)	Applicable
Act on Control etc. of Manufacture of Specific	Not Applicable
2) Other Country Regulation	
OSHA Regulation	Not Applicable
CERCLA Regulation	2267.995 kg 5000 kg
EPCRA 302 Regulation	Not Applicable
EPCRA 304 Regulation	Not Applicable
EPCRA 313 Regulation	Applicable
Rotterdam Convention substance	Not Applicable
Stockholm Convention substance	Not Applicable
Montreal Protocol substance	Not Applicable

XVI. References

- 1. The References are provided as followings (1) ICSC (2002)
 - (2) HSDB (2005)
 - (3) EHC (1993)
 - (4) EU-RAR No.18 (2002)
 - (5) ACGIH (2006)
 - (6) DFGOT vol.19 (2003)
 - (7) CERI Hazard Data 96-17 (1997)
 - (8) PHYSPROP Database (2005)
 - (9) Kosha.net
 - (10) Environmental Risk Evaluation vol.2 (2003)
 - (11) Environmental Ecology Effect Test (1995)
 - (12) Ncis.net
 - (13) Kischem.net
 - (14) ECHA

2. Creation Date

2010-04-29