

SAFETY DATA SHEET

1. Identification

Product identifier	Adiponitrile	
Other means of identification	·	
Item	N-11039	
Synonym(s)	1,4-Dicyanobutane	
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States	
Telephone	Toll Free Direct	800-452-9994 610-692-3026
Website E-mail	www.chemservice.com info@chemservice.com	
Emergency phone number	Chemtrec US Chemtrec outside US	800-424-9300 +1 703-527-3887
2. Hazard(s) identification		
Physical bazards	Not classified	

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, inhalation	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Toxic if swallowed. Fatal if inhaled. May cause respiratory irritation.
Precautionary statement	
Prevention	Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear respiratory protection.
Response	If swallowed: Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Rinse mouth.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Adiponitrile	1,4-Dicyanobutane	111-69-3	100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.

No unusual fire or explosion hazards noted. General fire hazards

Specific methods

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not breathe vapor. Do not taste or swallow. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Use standard firefighting procedures and consider the hazards of other involved materials.

8. Exposure controls/personal protection

Occupational exposure limits US. ACGIH Threshold Limit Values Material Value Type Adiponitrile (CAS 111-69-3) TWA 2 ppm **US. NIOSH: Pocket Guide to Chemical Hazards** Material Value Type Adiponitrile (CAS 111-69-3) TWA 18 mg/m3 4 ppm **Biological limit values** No biological exposure limits noted for the ingredient(s). **Exposure guidelines** US - California OELs: Skin designation Adiponitrile (CAS 111-69-3) Can be absorbed through the skin. US - Minnesota Haz Subs: Skin designation applies Adiponitrile (CAS 111-69-3) Skin designation applies. US ACGIH Threshold Limit Values: Skin designation Adiponitrile (CAS 111-69-3) Can be absorbed through the skin. Appropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates controls should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Individual protection measures, such as personal protective equipment Wear safety glasses with side shields (or goggles). Eye/face protection Skin protection Wear protective gloves. Hand protection Other Wear appropriate chemical resistant clothing. **Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). Thermal hazards Wear appropriate thermal protective clothing, when necessary. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such **General hygiene** considerations as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	33.8 - 37.4 °F (1 - 3 °C)
Initial boiling point and boiling range	563 °F (295 °C) 101.325 kPa
Flash point	200.0 °F (93.3 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0 kPa at 25 °C
Vapor density	3.73
Relative density	Not available.

Material name: Adiponitrile

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Solubility(ies)	
Solubility (water)	45 g/l
Partition coefficient (n-octanol/water)	-0.3
Auto-ignition temperature	1022 °F (550 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.9676 g/cm3
Dynamic viscosity	2.6 mPa.s 9.1 mPa.s
Dynamic viscosity temperature	158 °F (70 °C)
•	68 °F (20 °C)
Flammability class	Combustible IIIB estimated
Kinematic viscosity	2.69 mm ² /s estimated
Molecular formula	C6-H8-N2
Molecular weight	108.2 g/mol
Percent volatile	100 %
Specific gravity	0.97
VOC (Weight %)	100 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Nitrates.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Toxic if swallowed.
Inhalation	Fatal if inhaled.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Fatal if inhaled. Toxic if swallowed. Ma	y cause respiratory irritation.
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Acute toxicity	Fatal if inhaled. Toxic if swallowe	Fatal if inhaled. Toxic if swallowed. May cause respiratory irritation.	
Product	Species	Test Results	
Adiponitrile (CAS 111-69-3)			
Acute			
Dermal			
LD50	Rabbit	2134 mg/kg	
Inhalation			
LC50	Rat	1.71 mg/l	
		1.71 mg/l, 4 Hours	
Oral			
LD50	Mouse	172 mg/kg	
	Rabbit	22 mg/kg	
	Rat	155 mg/kg	

Product	Species	Test Results		
Other				
LD50	Guinea pig	50 mg/kg		
	Mouse	40 mg/kg		
* Estimates for product may be	based on additional component data n	ot shown.		
Skin corrosion/irritation	Prolonged skin contact may cause ten	nporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization				
Respiratory sensitization	Not available.			
Skin sensitization	This product is not expected to cause	skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a	carcinogen by IARC, ACGIH, NTP, or OSHA.		
US. OSHA Specifically Regul	lated Substances (29 CFR 1910.1001	-1050)		
Not listed.				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Respiratory tract irritation.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not available.			
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological information				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment			
Product	Species	Test Results		

Fish	LC50	Bluegill (Lepomis macrochirus)	720 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product.
Not available.
ol / water (log Kow)

Mobility in soil	No data available.
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Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation
potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN2205
UN proper shipping name	Adiponitrile
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Packing group	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T3, TP1
Packaging exceptions	153
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN2205
UN proper shipping name	Adiponitrile
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	
Environmental hazards	No.
ERG Code	6L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN2205
UN proper shipping name	ADIPONITRILE
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-A
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	



-				d by the OSHA Hazard	Communication
		9 CFR 1910.12	00. U.S. EPA TSCA Invent	ory List	
TSCA Section 12(b) Expo	-				
Not regulated.	it notification (10pt. D)		
CERCLA Hazardous Subs	tance List (40	CFR 302.4)			
Not listed. SARA 304 Emergency rele	ease notificatio	n -			
Adiponitrile (CAS 111-6			1000 LBS		
US. OSHA Specifically Re Not listed.	,	ances (29 CFR			
Superfund Amendments and I	Reauthorizatio	n Act of 1986 (S	SARA)		
Hazard categories		Hazard - Yes azard - No d - No azard - No			
SARA 302 Extremely haza	ardous substar	nce			
Chemical name C	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Adiponitrile 1	11-69-3	1000	1000 lbs		••
SARA 311/312 Hazardous chemical	Yes				
SARA 313 (TRI reporting) Not regulated.					
Not regulated. Clean Air Act (CAA) Secti Not regulated.	on 112(r) Accio	dental Release	Prevention (40 CFR 6	8.130)	
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New Zealand Inventory

New Zealand

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	06-19-2014			
Version #	01			
NFPA ratings	Health: 3 Flammability: 2 Instability: 1			
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.			
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.			
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.			
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