

SAFETY DATA SHEET

Creation Date 03-Dec-2014

Revision Date 24-Dec-2021

Revision Number 6

1. Identification

Product Name

Dimethylcyanamide

Cat No. :

AC200210000; AC200210050; AC200211000

CAS No Synonyms 1467-79-4 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 2
Acute Inhalation Toxicity - Vapors	Category 3

Label Elements

Signal Word Danger

Hazard Statements

Flammable liquid and vapor Fatal in contact with skin Toxic if swallowed or if inhaled



Precautionary Statements

Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area 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 Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician Skin Immediately call a POISON CENTER or doctor/physician Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %
Dimethylcyanamid	Э	1467-79-4	<=100
4. First-aid measures			
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact	kin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical		st 15 minutes. Immediate medical

	attention is required.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	58 °C / 136.4 °F
Method -	No information available
Autoignition Temperature	460 °C / 860 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Very toxic. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 4	Flammability 2	Instability 1	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions Environmental Precautions	away from and upwind of s of ignition. Take precaution	Use personal protective equipment as required. Ensure adequate ventilation. Keep per away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sour of ignition. Take precautionary measures against static discharges. Should not be released into the environment.		
Methods for Containment and Cle Up		ent material. Keep in suitable, c tion. Use spark-proof tools and		
	7. Handling	and storage		
Handling	Wear personal protective e	equipment/face protection. Do r	not get in eyes, on skin, or on	

Storage.	 clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Protect from moisture. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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9	Physical	and	chemical	properties

	ai and chemical properties
Physical State	Liquid
Appearance	Clear
Odor	Odorless
Odor Threshold	No information available
рН	Not applicable
Melting Point/Range	-41 °C / -41.8 °F
Boiling Point/Range	161 - 163 °C / 321.8 - 325.4 °F
Flash Point	58 °C / 136.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	40 mmHg @ 80 °C
Vapor Density	2.42
Specific Gravity	0.867
Solubility	Miscible with water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	460 °C / 860 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C3 H6 N2
Molecular Weight	70.09

10. Stability and reactivity			
Reactive Hazard None known, based on information available			
Stability Moisture sensitive. Light sensitive.			
Conditions to Avoid Exposure to moisture. Exposure to light. Keep away from open flames, hot surface sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents		
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component Informa	tion					
Component		LD50 Oral		LD50 Dermal		nhalation
Dimethylcyanamide Ll		_D50 = 146 mg/kg(Ra	at) 12	5 mg/kg (mouse)	No	t listed
Toxicologically Syn	ergistic	No information ava	ilable			
Products	-					
Delayed and immed	iate effects as w	ell as chronic effe	cts from short ar	nd long-term expo	sure	
rritation		Irritating to eyes, respiratory system and skin				
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether e	ach agency has list	ted any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Dimethylcyanamide	1467-79-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effects		No information available.				
Developmental Effects		No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation		
Ecotoxicity			0			

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	Miscible with water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.	
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified a

hods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S.
Technical Name	Dimethylcyanamide
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	ll
<u>TDG</u>	
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	ll
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	ll
IMDG/IMO	
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	I
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Dimethylcyanamide	1467-79-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

-										KEOL
Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dimethylcyanamide	1467-79-4	-	Х	215-991-7	Х	-	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethylcyanamide	Х	-	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

Moderate risk, Grade 2

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dimethylcyanamide	1467-79-4	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Dimethylcyanamide	1467-79-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-Dec-2014 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

End of SDS