Safety Data Sheet

Clethodim sulfoxide in acetonitrile

Version: V2.0.0.1

Report No.: BWN6190-2016-MSDS-US

Creation Date: 2025/10/16

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

Product Name	Clethodim sulfoxide in acetonitrile
Cat No.	BWN6190-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Flammable liquids	Category 2
Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Serious eye damage/irritation	Category 2
Acute Toxicity - Inhalation	Category 3

Label elements

Signal word

| Hazard statements

H225	Highly flammable liquid and vapour	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	

| Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P233	Keep container tightly closed.			
P240	Ground and bond container and receiving equipment.			
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.			
P242	Use non-sparking tools.			
P243	Take action to prevent static discharges.			
P261	Avoid breathing gas/mist/vapour/spray.			
P264	Wash hands and other parts of the body (if related) thoroughly after handling.			
P270	Do not eat, drink or smoke when using this product.			
P271	Use only outdoors or with adequate ventilation.			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			

Response			
P321	P321 Specific treatment (see related instructions on the label).		
P330	Rinse mouth.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P362+P364 Take off contaminated clothing and wash it before reuse.			
P370+P378	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas 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.		

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

Highly flammable liquids, its vapor and air mixture can form explosive mixture.

Health hazards

Inhaled	Sore throat. Weakness. Abdominal pain. Laboured breathing. Convulsions. Unconsciousness. Vomiting. Symptoms may be delayed.		
Ingestion	(Further see Inhalation).		
Skin Contact Redness.			
Eye	Redness. Pain.		

Environmental hazards

Please refer to 12th chapter of SDS.

Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Clethodim sulfoxide in acetonitrile	111031-14-2	-	0.01
Acetonitrile	75-05-8	200-835-2	99.99

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Ingestion	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give plenty of water to drink. Refer for medical attention.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

Clet	nodim sulfoxide in acetonitrile	Version: V2.0.0.1 Revision Date: -		
1	Treat symptomatically.			
2	Symptoms may be delayed.			
5	Fire-fighting measure	S		
Ext	inguishing media			
Su	itable extinguishing media	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out		
Unsu	itable extinguishing media	Use of water spray when fighting fire may be inefficient.		
l S	pecific hazards arising fro	m the substance or mixture		
1	Will form explosive mixtures			
2	Fire exposed containers may or vapour concentration.	vent contents through pressure relief valves thereby increasing fire intensity and/		
3	Vapours may travel to source	of ignition and flash back.		
4	Liquid and vapour are flammable.			
5	Development of hazardous combustion gases or vapor possible in the event of fire.			
6	May expansion or decompos	e explosively when heated or involved in fire.		
Spe	ecial protective equipmen	t and precautions for fire-fighters		
1	As in any fire, wear self-contage protective gear.	ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full		
2	Fight fire from a safe distanc	e, with adequate cover.		
3	Prevent fire extinguishing wa	ter from contaminating surface water or the ground water system.		
6	Accidental release mo	easures		
Per	sonal precautions, protec	tive equipment and emergency procedures		
1	Avoid breathing vapours and	contacting with skin and eye.		
2	Beware of vapours accumulating to form explosive concentrations.			
3	Vapours can accumulate in le	ow areas.		
4	Emergency personnel wear panti-static clothing. Wear che	positive pressure self-contained breathing apparatus. Wear protective and emical impermeable gloves.		
5	Use personal protective equi	pment,do not breathe gas/mist/vapour/spray.		
6	Ensure adequate ventilation. discharges.	Remove all sources of ignition. Take precautionary measures against static		
7	Evacuate personnel to safe a	areas. Keep people away from and upwind of spill/leak.		
Env	vironmental precautions			
1	Prevent further leakage or sp	pillage if safe to do so.		

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

Methods and materials for containment and cleaning up

- It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
- 2 In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
- 3 In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to

	reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the
	leakage in the restricted space.
4	Collect absorbent material using a clean, non-sparking tool.
5	Cover with anti-solvent foam to reduce evaporation.
6	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize
	spreading or contact with rain.
7	Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
8	Cut off the source of the leak as much as possible.
9	Keep leaks in a ventilated place.
10	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by
	bunding.
11	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
12	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in
	container.
13	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

| Precautions for safe handling

1	Avoid inhalation of vapors.
2	Use only non-sparking tools.
3	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

◆Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Acetonitrile	Permissible exposure standards for workers in the workplace	40	67	60	100.5
	Australia	40	67	60	101
	Canada - Ontario	20	-	-	-

European Union	40	70	-	-
New Zealand	40	67	60	101
USA - ACGIH	20	-	-	-

| Engineering controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement			
Eye protection	Must wear appropriate safety goggles.		
Hand protection	Must wear anti static chemical protective gloves.		
Respiratory protection	Must wear appropriate personal dust proof gas mask.		
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.		

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state, color, etc.) Odor Odor No information available No information available No information available No information available Melting point/freezing point(°C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Evaporation rate Flammability Upper/lower explosive limits[%(v/v)] Vapor pressure Vapor density(Air = 1) Relative density(Water=1) Solubility No information available Vauous limits[vicosed cup, °C) Ose (Acetonitrile) No information available Upper/lower explosive limits : 17 (Acetonitrile); Lower limit : 3 (Acetonitrile) Vapor density(Air = 1) Relative density(Water=1) Solubility No information available Auto-ignition temperature(°C) No information available No information available No information available	Physical and chemical prope	rties
Odor No information available Odor threshold No information available PH No information available Melting point/freezing point(°C) -46 (Acetonitrile) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) 2 (Acetonitrile) Evaporation rate No information available Flammability No information available Upper/lower explosive limits[%(v/v)] Vapor pressure 9.9kPa (25°C,Acetonitrile) Vapor density(Air = 1) 1.4 (Acetonitrile) Relative density(Water=1) 0.8 (Acetonitrile) Solubility 100000mg/L (25 °C,Acetonitrile) n-octanol/water partition coefficient Auto-ignition temperature(°C) No information available Decomposition temperature(°C) No information available	" "	colorless liquid
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Solubility 1000000mg/L (25 °C,Acetonitrile) n-octanol/water partition coefficient Auto-ignition temperature(°C) 524 (Acetonitrile) Decomposition temperature(°C) No information available	Vapor density(Air = 1)	1.4 (Acetonitrile)
n-octanol/water partition coefficient Auto-ignition temperature(°C) 524 (Acetonitrile) Decomposition temperature(°C) No information available	Relative density(Water=1)	0.8 (Acetonitrile)
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Auto-ignition temperature(°C) 524 (Acetonitrile) Decomposition temperature(°C) No information available	n-octanol/water partition	-0.3 (Acetonitrile)
Decomposition temperature(°C) No information available	coefficient	
	Auto-ignition temperature(°C)	524 (Acetonitrile)
Kinematic viscosity No information available	Decomposition temperature(°C)	No information available
	Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.		
Chemical stability	Stable under proper operation and storage conditions.		
Possibility of hazardous	In contact with N-halogen compounds may cause a potensive explosive		
reactions	hazardous.		
Conditions to avoid	Incompatible materials, heat, flame and spark.		
Incompatible materials	N - halogenated compounds, sulfuric acid and strong oxidants.		
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products		
products	should not be produced.		

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11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Acetonitrile	2460mg/kg(Rat)	> 2000mg/kg(Rabbit)	4.748mg/L(Rabbit)

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Clethodim sulfoxide in	Not Listed	Not Listed	Not Listed
acetonitrile			
Acetonitrile	Not Listed	Not Listed	Not Listed

Others

Clethodim sulfoxide in acetonitrile						
Skin corrosion/irritation	Based on available data, the classification criteria are not met					
Serious eye damage/irritation	Causes serious eye irritation(Category 2)					
Skin sensitization	Based on available data, the classification criteria are not met					
Respiratory sensitization	Based on available data, the classification criteria are not met					
Reproductive toxicity	Based on available data, the classification criteria are not met					
STOT-repeated exposure	Based on available data, the classification criteria are not met					
Aspiration hazard	Based on available data, the classification criteria are not met					
Germ cell mutagenicity	Based on available data, the classification criteria are not met					

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Acetonitrile	LC ₅₀ : > 100mg/L	EC ₅₀ : > 1000mg/L	ErC ₅₀ : >700mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants		
Acetonitrile	NOEC: 102mg/L(Fish)	NOEC: >960mg/L(Crusta	NOEC: 700mg/L(Algae)		
		ceans)			

| Persistence and degradability

Persistence and degradability No information available

Bioaccumulative potential

Bioaccumulative potential No information available

| Mobility in soil

Component	log Koc	Remark
Acetonitrile	0.653	

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and
	regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

| Label and Mark

Transporting Label



IMDG-CODE

UN number	1648
UN proper shipping name	ACETONITRILE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1648
UN proper shipping name	ACETONITRILE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	1648
UN proper shipping name	ACETONITRILE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature. Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

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15 Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
Clethodim sulfoxide in acetonitrile	×	×	×	×	×	×	×	×	×	×	×	×	×
Acetonitrile	√	√	V	√	√	√	√	√	V	√	√	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	A	В	С
Clethodim sulfoxide in acetonitrile	×	×	×
Acetonitrile	×	×	×

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- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	Е	F	G	Н
Clethodim sulfoxide in acetonitrile	×	×	×	×	×	×	×	×
Acetonitrile	√	×	√	√	V	V	√	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

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Creation Date	2025/10/16
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association

NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD_{50}	Lethal Dose 50%	NTP	National Toxicology Program
EC_{50}	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

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