## **Safety Data Sheet**

# 2,3-Dichloro-1-propanol in ethyl acetate

Version: V2.0.0.1

Report No.: BWQ9553-2016-MSDS-US

Creation Date: 2025/09/30

Revision Date: -



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

1	Identification
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## | Product identifier

Product Name	2,3-Dichloro-1-propanol in ethyl acetate
Cat No.	BWQ9553-2016
CAS No.	616-23-9
EC No.	210-470-0
Molecular Formula	C3H6Cl2O

## 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 nun	nhor 010 50102670
Emergency phone nur	nper   010-58103678

# 2 Hazard(s) identification

## Hazard classification according to 29 CFR 1910.1200

Flammable Liquids	Category 4
Serious eye damage/irritation	Category 2
Specific target organ toxicity -	Category 3
single exposure; narcotic	
effects	

#### Label elements

**Hazard pictograms** 



Signal word	Warning
Hazard statements	
H227	Combustible liquid
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
Precautionary statements	
<ul><li>Prevention</li></ul>	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
◆ Response	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P370+P378	Small fire: dry chemical, CO <sub>2</sub> 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 ou
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<ul><li>Storage</li></ul>	
P403	Store in a well-ventilated place.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
◆ Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	
Other nazards	Not applicable.
	тот аррпсавте.
Hazard description	
<ul> <li>Physical and chemical haz</li> </ul>	
	Combustible liquids in case of flame and high fever.
<ul><li>Health hazards</li></ul>	
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, ma produce systemic injury with harmful effects.
Eye	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.

#### Environmental hazards

Please refer to 12th chapter of SDS.

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## 3 Composition/information on ingredients

### Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
2,3-dichloropropan-1-ol	616-23-9	210-470-0	0.111
Ethyl acetate	141-78-6	205-500-4	88.9

## 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	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
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

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.
- 5 Fire-fighting measures

## | Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO <sub>2</sub> 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.
Unsuitable extinguishing media	Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the substance or mixture

- 1 Will form explosive mixtures with air.
- 2 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/

	or vapour concentration.
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 decompose explosively when heated or involved in fire.
Spe	cial protective equipment and precautions for fire-fighters
1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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# Accidental release measures

Fight fire from a safe distance, with adequate cover.

protective gear.

3

## Personal precautions, protective 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 low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Use personal protective equipment,do not breathe gas/mist/vapour/spray.
6	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
7	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

- 1 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

1	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.

# 7 Handling and storage

## | Precautions for safe handling

Avoid inhalation of vapors.
Use only non-sparking tools.
To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
Use explosion proof equipment.
Handling is performed in a well ventilated place.
Wear suitable protective equipment.
Avoid contact with skin and eyes.

## Conditions for safe storage, including any incompatibilities

Keep away from heat/sparks/open flames/ hot surfaces.

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	Component Country/Region Limit value - Eight hours		Limit value - Short term		
		ppm	mg/m³	ppm	mg/m³
Ethyl acetate	Australia	200	720	400	1440
	Canada - Ontario	400	-	-	-
	European Union	200	734	400	1468
	New Zealand	200	720	-	-
	USA - ACGIH	400	-	-	-
	USA - NIOSH	400	1400	-	-

## | 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 was anti-static shaminal protection gloves
nand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
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

Thyorotal and chomical properties			
Appearance (physical state,	Clear, colorless liquid		
color, etc.)			
Odor	No information available		
Odor threshold	No information available		
рН	No information available		
Melting point/freezing point(°C)	No information available		
Initial boiling point and boiling	183		
range(°C)			
Flash point(Closed cup,°C)	93		
Evaporation rate	No information available		
Flammability	No information available		
Upper/lower explosive	Upper limit: No information available; Lower limit: No information available		
limits[%(v/v)]			
Vapor pressure	0.245hPa ( 25°C, Calculated )		
Vapor density(Air = 1)	4.45		
Relative density(Water=1)	1.3607		
Solubility	Miscible with water		
n-octanol/water partition	0.78 ( Calculated )		
coefficient			
Auto-ignition temperature(°C)	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 reactions	In contact with metal alkoxides may cause a fire.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Metal alkyl oxide, metal hydride, inorganic peroxide, nitrate and halogens oxyacid salts.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

# 11 Toxicological information

## | Acute toxicity

Component LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
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2,3-dichloropropan-1-ol	90mg/kg(Rat)	200mg/kg(Rabbit)	No information available
Ethyl acetate	5620mg/kg(Rat)	> 18000mg/kg(Rabbit)	No information available

## | Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
2,3-dichloropropan-1-ol	Not Listed	Not Listed	Not Listed
Ethyl acetate	Not Listed	Not Listed	Not Listed

## Others

2,3-dichloropropan-1-ol(Component)			
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-single exposure	May cause drowsiness or dizziness(Category 3)		
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
Ethyl acetate	LC <sub>50</sub> :230mg/L (96h)(Fish)	No information available	ErC <sub>50</sub> : 2500mg/L (96h)(Algae)

## | Chronic aquatic toxicity

Chronic aquatic toxicity No information available

## | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
2,3-dichloropropan-1-ol	High	High

## | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
2,3-dichloropropan-1-ol	Low	Log Kow=0.7844

## | Mobility in soil

Component	log Koc	Remark
2,3-dichloropropan-1-ol	0.597	

# 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.

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# 14 Transport information

## Label and Mark

**Transporting Label** 



## IMDG-CODE

•	
UN number	1173
UN proper shipping name	ETHYL ACETATE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant ( Yes or no )	No

## IATA-DGR

<u>•</u>	
UN number	1173
UN proper shipping name	ETHYL ACETATE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	П

## UN-ADR

UN number	1173
UN proper shipping name	ETHYL ACETATE
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		J	K	L	M
2,3-dichloropropan-1-ol	<b>√</b>	<b>√</b>	√	√	√	<b>√</b>	×	√	√	<b>√</b>	×	<b>√</b>	√
Ethyl acetate	√	√	√	√	√	√	√	√	√	√	√	√	√

- [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
2,3-dichloropropan-1-ol	×	×	×
Ethyl acetate	×	×	×

- [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	E	F	G	Н
2,3-dichloropropan-1-ol	×	×	×	×	×	√	×	×
Ethyl acetate	×	×	√	√	<b>√</b>	<b>√</b>	<b>√</b>	×

- [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

Creation Date	2025/09/30
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 <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	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

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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