

SAFETY DATA SHEET

Version 6.6 Revision Date 09/09/2021 Print Date 05/28/2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : VINYL CHLORIDE-D3, >=98 ATOM % D,

>=99%&

Product Number : 615056
Brand : Aldrich
CAS-No. : 6745-35-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable gases (Category 1), H220 Gases under pressure (Liquefied gas), H280

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1B), H350

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Aldrich - 615056

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Pictogram



Signal word Danger

Hazard statement(s)

H220 Extremely flammable gas.

Contains gas under pressure; may explode if heated. H280

H317 May cause an allergic skin reaction.

Causes serious eye damage. H318

H341 Suspected of causing genetic defects.

H350 May cause cancer. H400 Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects. H411

Precautionary statement(s)

Obtain special instructions before use. P201

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No

smokina.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272

Contaminated work clothing must not be allowed out of the

workplace.

P273 Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face P280

protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. P305 + P351 + P338 + Remove contact lenses, if present and easy to do. Continue P310

rinsing. Immediately call a POISON CENTER/ doctor.

IF exposed or concerned: Get medical advice/ attention. P308 + P313 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped

safely.

P381 Eliminate all ignition sources if safe to do so.

P391 Collect spillage. P405 Store locked up.

Protect from sunlight. Store in a well-ventilated place. P410 + P403

P501 Dispose of contents/ container to an approved waste disposal

plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Contact with liquid or refrigerated gas can cause cold burns and frostbite.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

: Chloroethylene-d3 Synonyms

Chloroethylene-d3

Formula : C₂D₃Cl Molecular weight : 65.46 g/mol



CAS-No. : 6745-35-3

Component	Classification	Concentration
Vinyl chloride-d3		
•	Flam. Gas 1; Press. Gas	<= 100 %
	Liquefied gas; Carc. 1B;	
	H220, H280, H350	

hydroquinone				
	Acute Tox. 4; Eye Dam. 1;	>= 10 - < 20		
	Muta. 2; Carc. 2; Aquatic	%		
	Acute 1; Aquatic Chronic			
	1; H302, H318, H341,			
	H351, H400, H410			
	M-Factor - Aquatic Acute:			
	10 - Aquatic Chronic: 1			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

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Millipore SiGMa

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Hydrogen chloride gas

Combustible.

Pay attention to flashback.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe gas. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Stop flow of gas, move leaking cylinder to open air if without risk.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions



Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Keep away from combustible materials and sources of ignition.

Storage class

Storage class (TRGS 510): 2A: Gases

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

	Workplace	control par		ingredients with workplace control parameters							
Component	CAS-No.	Value	Control	Basis							
			parameters								
Vinyl chloride-d3	6745-35-3	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)							
	Remarks	Confirmed	human carcinog	en							
		Potential Occupational Carcinogen									
		PEL	1 ppm	OSHA Specifically Regulated Chemicals/Carcinogens							
		OSHA spec	ifically regulated	carcinogen							
		STEL	5 ppm	OSHA Specifically Regulated Chemicals/Carcinogens							
		OSHA spec	ifically regulated	carcinogen							
		PEL	1 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)							
		Skin									
hydroquinone	123-31-9	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)							
		Dermal Ser Confirmed humans	en with unknown relevance to								
		TWA	2 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants							
		С	2 mg/m3	USA. NIOSH Recommended Exposure Limits							
		TWA	2 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000							
		PEL	2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)							

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological	Basis	
				specimen		



hydroquinone	123-31-9	Methemoglo bin	1.5% Hb		ACGIH - Biological Exposure Indices (BEI)
	Remarks	During or at the end of the shift			

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

required

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/mists are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: Liquefied gas
b) Odor No data available
c) Odor Threshold No data available
d) pH No data available

e) Melting point/range: -153.8 °C (-244.8 °F) - lit. point/freezing point

f) Initial boiling point -13.4 °C 7.9 °F - lit.

and boiling range
g) Flash point ()No data available

h) Evaporation rate No data availablei) Flammability (solid, qas)

j) Upper/lower Upper explosion limit: 31 %(V) at 1013 hPa flammability or explosive limits Upper explosion limit: 3.8 %(V) at 1013 hPa



k) Vapor pressure 3400.0 hPa at 20 °C (68 °F)

I) Vapor density No data available

m) Density 0.911 g/mL at 25 °C (77 °F)0.911 g/cm3 at 25 °C (77 °F)

Relative density
No data available
No data available
Partition coefficient:
No data available

n-octanol/water

p) Autoignition No data available

temperature

q) Decomposition No data available

temperature

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Contains the following stabilizer(s):

hydroquinone (10 %)

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral - 5,000 mg/kg (Calculation method)
Oral: No data available

Inhalation: No data available



Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Possible human carcinogen (Vinyl chloride-d3)

IARC: 1 - Group 1: Carcinogenic to humans (Vinyl chloride-d3)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available (Vinyl chloride-d3)

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting (Vinyl chloride-d3)

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Vinyl chloride-d3)

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available (Vinyl chloride-d3)



12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Pressurised gas bottle: dispose of only in empty condition! See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 1086 Class: 2.1

Proper shipping name: Vinyl chloride, stabilized

Reportable Quantity (RQ): 1 lbs Reportable Quantity (RQ): 1 lbs Poison Inhalation Hazard: No

IMDG

UN number: 1086 Class: 2.1 EMS-No: F-D, S-U

Proper shipping name: VINYL CHLORIDE, STABILIZED

IATA

UN number: 1086 Class: 2.1

Proper shipping name: Vinyl chloride, stabilized IATA Passenger: Not permitted for transport

SECTION 15: Regulatory information

SARA 302 Components

hydroquinone CAS-No. Revision Date 123-31-9 2007-03-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Vinyl chloride-d3 CAS-No. Revision Date 2007-07-01

123-31-9 2007-03-01

hydroquinone

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Millipore Sigma

SARA 311/312 Hazards

Fire Hazard, Sudden Release of Pressure Hazard, Chronic Health Hazard

Reportable Quantity

D043 lbs

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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