SAFETY DATA SHEET

Version 6.1 Revision Date 07/16/2018 Print Date 09/21/2019

1. PRODUCT AND COMPANY IDENTIFICATION

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 Street ST. LOUIS MO 63103 UNITED STATES

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

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

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

Carcinogenicity (Category 1B), H350

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

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H350 May cause cancer.

Precautionary statement(s)

P201 Obtain special instructions before use.

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

understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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

P381 Eliminate all ignition sources if safe to do so.

P405 Store locked up.

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

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Chloroethylene-d<SB>3</>

Chloroethylene-d<SB>3</>

Formula : C_2D_3CI Molecular weight : 65.46 g/molCAS-No. : 6745-35-3

Hazardous components

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

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. hygroscopic

Recommended storage temperature -20 °C 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis		
Vinyl chloride-d3	6745-35-3	TWA	1.000000 ppm	USA. ACGIH Threshold Limit Values		
				(TLV)		
	Remarks	Liver damage Lung cancer Confirmed human carcinogen				
		Potential Occupational Carcinogen See Appendix A				
		Substance listed; for more information see OSHA document 1910.1017				

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PEL	1.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens	
1910.1017 This section applies to the manufacture, reaction, packaging, repackaging, storage, handling or use of vinyl chloride or polyvinyl chloride, but does not apply to the handling or use of fabricated products made of polyvinyl chloride. This section applies to the transportation of vinyl chloride or polyvinyl chloride except to the extent that the Department of Transportation may regulate the hazards covered by this section Polyvinyl chloride means polyvinyl chloride homopolymer or copolymer before such is converted to a fabricated product. Vinyl chloride means vinyl chloride monomer. OSHA specifically regulated carcinogen			
STEL	5.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens	
This section applies to the manufacture, reaction, packaging, repackaging, storage, handling or use of vinyl chloride or polyvinyl chloride, but does not apply to the handling or use of fabricated products made of polyvinyl chloride. This section applies to the transportation of vinyl chloride or polyvinyl chloride except to the extent that the Department of Transportation may regulate the hazards covered by this section Polyvinyl chloride means polyvinyl chloride homopolymer or copolymer before such is converted to a fabricated product. Vinyl chloride means vinyl chloride monomer. OSHA specifically regulated carcinogen			
Substance listed; for more information see OSHA document 1910.1017			
PEL	1 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Skin see Section 5210			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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

Melting point/freezing

point

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

Initial boiling point and

boiling range

-13.4 °C (7.9 °F) - lit.

No data available g) Flash point h) Evaporation rate No data available Flammability (solid, gas) No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 31 %(V) at 1013 hPa Lower explosion limit: 3.8 %(V) at 1013 hPa

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

Vapour density No data available

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

No data available n) Water solubility Partition coefficient: noctanol/water

No data available

Auto-ignition temperature

No data available

q) Decomposition temperature

No data available

No data available Viscosity s) Explosive properties No data available No data available Oxidizing properties

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions 10.3

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents

Hazardous decomposition products 10.6

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

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 sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Possible human carcinogen

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

NTP: Known - Known to be human carcinogen (Vinyl chloride-d3)
OSHA: OSHA specifically regulated carcinogen (Vinyl chloride-d3)

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

Additional Information

RTECS: Not available

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

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

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)

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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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1086 Class: 2.1

Proper shipping name: Vinyl chloride, stabilized 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

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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 6745-35-3 2007-07-01

SARA 311/312 Hazards

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

Massachusetts Right To Know Components

Vinyl chloride-d3 CAS-No. Revision Date 6745-35-3 2007-07-01

Pennsylvania Right To Know Components

CAS-No. Revision Date Vinyl chloride-d3 6745-35-3 2007-07-01

New Jersey Right To Know Components

Vinyl chloride-d3 CAS-No. Revision Date 6745-35-3 2007-07-01

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California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Vinyl chloride-d3

CAS-No. 6745-35-3

Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H350 May cause cancer.

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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