

SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 1

Compilation date: 06/05/2008

Revision date: 10/07/17

Revision No: 3

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

1.1. Product identifier

Product name: 1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

CAS number: 75-34-3

EINECS number: 200-863-5

Index number: 602-011-00-1

Product code: OR3712

Synonyms: ETHYLIDENE CHLORIDE

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

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd

Units 3 & 4

Parkway

Denton

Manchester

M34 3SG

UK

Tel: 0161 337 9971

Fax: 0161 336 6932

Email: david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; Acute Tox. 4: H302; Aquatic Chronic 3: H412; Flam. Liq. 2: H225

Most important adverse effects: Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

Signal words: Danger

SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 2

Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark



Precautionary statements: P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing vapours.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

CAS number: 75-34-3

EINECS number: 200-863-5

Contains: Stabilised with nitromethane.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

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SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 3

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen chloride (HCl).

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools. Only use in fume hood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Must only be kept in original packaging.

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SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 4

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	100ppm	-

Respirable dust

Hazardous ingredients:

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Workplace exposure limits:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	100ppm	-

Respirable dust

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves. Butyl gloves. Fluorinated rubber gloves. the selected protective gloves have to satisfy the specs of EU directive 89/686/EEC & the standard EN 374.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Characteristic odour

Evaporation rate: No Data Available

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Very slightly soluble

Also soluble in: Ether. Alcohol.

Viscosity: No data available.

Boiling point/range °C: 55-58

Melting point/range °C: -98

Flammability limits %: lower: 5.6

upper: 11.4

Flash point °C: -10

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SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 5

Autoflammability°C: 458

Relative density: 1.18 g/cm³

VOC g/l: 20°C

Part.coeff. n-octanol/water: log Pow: 1.8

Vapour pressure: 25kPa/20°C

pH: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen chloride (HCl). Nitrogen oxides (NO_x).

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	725	mg/kg
IHL	RAT	4H LC50	13000	ppm

Hazardous ingredients:

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

IHL	RAT	4H LC50	13000	ppm
ORAL	RAT	LD50	725	mg/kg

[cont...]

SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 6

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Disposal of packaging: Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 7

Section 14: Transport information

14.1. UN number

UN number: * UN2362

14.2. UN proper shipping name

Shipping name: 1,1-DICHLOROETHANE

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: * 2

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* Data predicted using computational software. The OECD QSAR-Toolbox for grouping chemicals into categories. Developed by LMC bulgaria.

<http://echa.europa.eu/support/oeqd-qsar-toolbox>

~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

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SAFETY DATA SHEET

1,1-DICHLOROETHANE, STAB. WITH NITROMETHANE

Page: 8

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