

2-CHLORO-3,3,3-TRIFLUOROPROP-1-ENE

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

1.1. Product identifier

Product name: 2-CHLORO-3,3,3-TRIFLUOROPROP-1-ENE

CAS number: 2730-62-3

Product code: PC0682

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 CHIP:	Xi: R36/37/38; -: R44		
Classification under CLP:	Press. Gas: H280; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; -: EUH044		
Most important adverse effects:	ects: Irritating to eyes, respiratory system and skin. Risk of explosion if heated under		
	confinement.		
2.2. Label elements			
Label elements under CLP:			
Hazard statements:	H280: Contains gas under pressure; may explode if heated.		
	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		

EUH044: Risk of explosion if heated under confinement.

Signal words: Warning

Hazard pictograms: GHS04: Gas cylinder

GHS07: Exclamation mark

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Precautionary statements: P251: Pressurized container: Do not pierce or burn, even after use. P261: Avoid breathing vapours.

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

Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases:	R36/37/38: Irritating to eyes, respiratory system and skin.	
	R44: Risk of explosion if heated under confinement.	
Safety phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek	
	medical advice.	
	S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.	

2.3. Other hazards

Other hazards: Risk of explosion if heated under confinement.

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-CHLORO-3,3,3-TRIFLUOROPROP-1-ENE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

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

Ingestion: Wash out mouth with water. 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.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

Section 5: Fire-fighting measures

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: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen fluoride (HF). 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.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Ventilate area.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Do not breathe vapour. Pressurised container: protect from sunlight and do not expose to temperatures exceding 50 °C. Do not pierce or burn, even after use. Fire or intense heat may cause violent rupture.

7.2. Conditions for safe storage, including any incompatibilities

- **Storage conditions:** Contents under pressure. Store in tightly closed, airtight, moisture-proof cylinders in a cool, dry, well-ventilated area away from heat, sources of ignition and sparks. Protect the pressurised containers from physical damage.
- Suitable packaging: Must only be kept in original packaging.

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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: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

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

Hand protection: Protective gloves.

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

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquified gas

Boiling point/range ℃: 14-15

Flash point °C: none

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.

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. Flames. Sources of ignition. Extremes of temperature. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Active metals

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen

chloride (HCI). Hydrogen fluoride (HF).

Section 11: Toxicological information

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11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

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.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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 substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

 Disposal operations:
 MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND

 FEDERAL REGULATIONS
 Fisposal 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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Page: 6 Section 14: Transport information 14.1. UN number UN number: UN3163 14.2. UN proper shipping name Shipping name: LIQUEFIED GAS, N.O.S. 14.3. Transport hazard class(es) Transport class: 2 14.4. Packing group 14.5. Environmental hazards Environmentally hazardous: No Marine pollutant: No 14.6. Special precautions for user Tunnel code: C/E Transport category: 3 Section 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 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 453/2010. * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? c=TOXTREE ~ Data predicted using computatioanl 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 3: EUH044: Risk of explosion if heated under confinement. H280: Contains gas under pressure; may explode if heated. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R44: Risk of explosion if heated under confinement.

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