

A CENTRAL GLASS CO., 17D. COMPANY 2-(CHLOROMETHYL)-3,5-DIMETHYLPYRIDINE HYDROCHLORIDE

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

1.1. Product identifier

Product name: 2-(CHLOROMETHYL)-3,5-DIMETHYLPYRIDINE HYDROCHLORIDE

CAS number: 73590-93-9

Product code: OR450036

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:	Acute Tox. 4: H302; STOT SE 3: H335; Eye Dam. 1: H318; Skin Irrit. 2: H315
Classification under CHIP:	Xn: R22; Xi: R37/38; Xi: R41
Most important adverse effects:	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause
	respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

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Precautionary statements: P310: Immediately call a POISON CENTER/doctor/.

P261: Avoid breathing dust.

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

2.3. Other hazards

Other hazards: Lachrymatory.

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-(CHLOROMETHYL)-3,5-DIMETHYLPYRIDINE HYDROCHLORIDE

CAS number: 73590-93-9

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. Wash
	immediately with plenty of soap and water.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
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 pain and redness. The eyes may water profusely. There may be severe
	pain. The vision may become blurred. May cause permanent damage.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach
	pain may occur.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.
4.3. Indication of any immediate medical attention and special treatment needed	
Immediate / special treatment:	Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

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		Dege
5.1 Extinguishing modio		Page:
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	om the substance or mixture	
Exposure hazards:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Hydrogen	
	chloride (HCI). Nitrogen oxides (NOx).	
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 r	·	
Section 0. Accidental release i		
6.1. Personal precautions, prot	tective equipment and emergency procedures	
Personal precautions:	Mark out the contaminated area with signs and prevent access to unauthorised	
	personnel. Do not attempt to take action without suitable protective clothing - see section	
	8 of SDS. Do not create dust.	
6.2. Environmental precautions	\$	
Environmental precautions:	Do not discharge into drains or rivers.	
6.3. Methods and material for o	containment and cleaning up	
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate	
	method.	
6.4. Reference to other section	S	
Reference to other sections:	Refer to section 8 of SDS.	
Section 7: Handling and storage	ge	
7.1. Precautions for safe handl	ing	
Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.	
nananny requirements.	Avoid the formation or spread of dust in the air. Only use in fume hood.	
7.2 Conditions for acts stores	e, including any incompatibilities	
1.2. Conultions for sale storag	e, including any incompatibilities	
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Product is	

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Product is hygroscopic. Take precautions to avoid contact with atmospheric moisture. Store under Argon.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

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8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC 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. Respiratory
protective device with particle filter.Hand protection:Protective gloves.Eye protection:Tightly fitting safety goggles. 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: Solid

Colour: White

Odour: Lachrymatory

Solubility in water: Slightly soluble

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.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air. Humidity.

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 (HCI). Nitrogen oxides (NOx).

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Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
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 pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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

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

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

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Section 14: Transport information

Transport class: This product does not require a classification for transport.

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

 * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? e=TOXTREE > Data predicted using computational software ACD/ToxSuite v2.95.1 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/ H302: Harmful if swallowed. H318: Causes serious eye damage. H335: May cause respiratory irritation. H22: Harmful if swallowed. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. PNEC = predicted no effect level DNEL = derived no effect level DS50 = median lethal dose L550 = median lethal dose L550 = median lethal dose L550 = median lethal concentration L550 = median inhibitory conce	Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
c=TOXTREE ~ 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: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. Legend to abbreviations: PNEC = predicted no effect level DNEL = derived no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal concentration IC50 = median inhibitory concentration IC50 = median inhibitory concentration W = dry weight bw = body weight w = colsed cup oc = open cup		* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by
 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: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. PNEC = predicted no effect level DNEL = derived no effect level DNEL = derived no effect level LC50 = median lethal dose LC50 = median lethal dose LC50 = median lethal dose LC50 = median lethal concentration IC50 = median inhibitory concentration 		decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?
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: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H335: May cause respiratory irritation. R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. Legend to abbreviations PNEC = predicted no effect level DNEL = derived no effect level DNEL = derived no effect level LD50 = median lethal dose LC50 = median lethal dose LC50 = median inhibitory concentration IC50 = median inhibitory concentration IC50 = median inhibitory concentration IC50 = median inhibitory concentration iC50 = closed cup ow = body weight cc = closed cup oc = open cup		c=TOXTREE
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cc = closed cup oc = open cup		dw = dry weight
oc = open cup		bw = body weight
		cc = closed cup
MUS = mouse		oc = open cup
		MUS = mouse

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GPG = guinea pig RBT = rabbit HAM = hamster HMN = humanMAM = mammal PGN = pigeon IVN = intravenous SCU = subcutaneous SKN = skin DRM = dermal OCC = ocular/corneal

PCP = phycico-chemical properties

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