

METHYL 5-HYDROXYPYRAZINE-2-CARBOXYLATE

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

#### 1.1. Product identifier

Product name: METHYL 5-HYDROXYPYRAZINE-2-CARBOXYLATE

CAS number: 13924-95-3

Product code: OR301122

Synonyms: 2-HYDROXY-5-(METHOXYCARBONYL)PYRAZINE

2-HYDROXY-5-(METHOXYCARBONYL)-1,4-DIAZINE

#### 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:	Xn: R20/21/22; Xi: R36/37/38
Classification under CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory
	system and skin.

#### 2.2. Label elements

Label elements under CLP:	
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark

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**Precautionary statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection. **Label elements under CHIP:** 

Hazard symbols: Harmful.



**Risk phrases:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin.

2.3. Other hazards

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

## Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: METHYL 5-HYDROXYPYRAZINE-2-CARBOXYLATE

## 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

#### 5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the

surrounding fire should be used.

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# 5.2. Special hazards arising from the substance or mixture Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. 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 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:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. 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 dust in the air. Only use in fume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Recommended storage temp 2-8 ℃. 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 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. Respiratory

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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: Solid

Solubility in water: Slightly soluble

Melting point/range ℃: 181-185

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.

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. Nitrogen oxides

(NOx).

#### Section 11: Toxicological information

11.1. Information on toxicological effects

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

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STOT-single exposure		INH	Based on test data		
Symptoms / routes of exposur	6				1
·					
		be irritation and redness			
<b>Eye contact:</b> There may be irritation and redness. The eyes may water profusely.					
Ingestion:	-		s of the mouth and throat. Nausea and stomach		
		occur. There may be vomit	-		
Inhalation:	There may	be irritation of the throat v	with a feeling of tightness in the chest.		
Section 12: Ecological information	ation				
12.1. Toxicity					
Ecotoxicity values:	No data av	ailable.			
12.2. Persistence and degrada	bility				
Persistence and degradability:	No data av	ailable.			
12.3. Bioaccumulative potentia	ıl				
Bioaccumulative potential:	No data av	ailable.			
12.4. Mobility in soil					
Mobility:	No data av	ailable.			
12.5. Results of PBT and vPvB	assessme	nt			
PBT identification:	This substa	ance is not identified as a	PBT substance.		
12.6. Other adverse effects					
Other adverse effects:	No data av	ailable.			
Section 13: Disposal consider	ations				
13.1. Waste treatment methods	6				
Disposal operations:	MATERIAL	_ SHOULD BE DISPOSED	O OF IN ACCORDANCE WITH LOCAL, STATE AND		
	FEDERAL	REGULATIONS			
Disposal of packaging:	Dispose of	as special waste in comp	liance with local and national regulations Observe		
	all federal,	state and local environme	ental regulations.		
NB:	The user's	attention is drawn to the p	possible existence of regional or national		
		s regarding disposal.			
Section 14: Transport informa	-				

#### Section 14: Transport information

14.1. UN number

UN number: UNnone

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

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14.3. Transport hazard class(es	\$)	
14.4. Packing group		
14.5. Environmental hazards		
Environmentally hazardous:	No Marine pollutant: No	
14.6. Special precautions for us	ser	
Section 15: Regulatory informa	ation	
15.1. Safety, health and environ	nmental regulations/legislation specific for the substance or mixture	
15.2. Chemical Safety Assessm	ient	
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:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H335: May cause respiratory irritation.	
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.	
	R36/37/38: Irritating to eyes, respiratory system and skin.	
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively	
	by those who have been fully trained in safety, laboratory and chemical handling	
	procedures. The above information is believed to be correct to the best of our	
	knowledge. The above information is believed to be correct to the best of our knowledge	
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