

5-METHYL-2-NITROANILINE

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

### 1.1. Product identifier

Product name: 5-METHYL-2-NITROANILINE

CAS number: 578-46-1

EINECS number: 209-423-7

Index number: 612-025-00-X

Product code: OR51790

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. 3: H301+311+331; Aquatic Chronic 2: H411; STOT RE 2: H373	
Classification under CHIP:	T: R23/24/25; Xn: R33; N: R51/53
Most important adverse effects: Toxic if swallowed, in contact with skin or if inhaled. May cause damage to organ	
	through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Label elements:	
Hazard statements:	H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.
	H373: May cause damage to organs through prolonged or repeated exposure.
	H411: Toxic to aquatic life with long lasting effects.
Signal words:	Danger
Hazard pictograms:	GHS06: Skull and crossbones

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GHS08: Health hazard

GHS09: Environmental



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

P260: Do not breathe dust.

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

P284: [In case of inadequate ventilation] wear respiratory protection.

## 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

### 3.1. Substances

#### Chemical identity: 5-METHYL-2-NITROANILINE

CAS number: 578-46-1

EINECS number: 209-423-7

## 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. Transfer to hospital if there are burns or symptoms of poisoning.
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. If unconscious, check for breathing and apply artificial respiration if
	necessary. If unconscious and breathing is OK, place in the recovery position. Transfer
	to hospital as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,
	place in the recovery position. If unconscious, check for breathing and apply artificial
	respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide
	oxygen if available. Transfer to hospital as soon as possible.
4.2. Most important symptoms	and effects, both acute and delayed
Skin contact:	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain

may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting.

Convulsions may occur. There may be loss of consciousness.

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Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption		ļ
	through the lungs can occur causing symptoms similar to those of ingestion.		ļ
	Convulsions may occur. There may be loss of consciousness.		ļ
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	te medical attention and special treatment needed		
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in		
	attendance.		
Section 5: Fire-fighting measu	ires		
5.1. Extinguishing media			
	Orthor disvide, dry chemical powder from Suitable extinguishing mode for the		
Extinguishing meura.	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		ļ
	surrounding fire should be used. Use water spray to cool containers.		_ !
5.2. Special hazards arising fro	om the substance or mixture		
Exposure hazards:	Toxic. 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 r	·		
6.1. Personal precautions, pro	tective equipment and emergency procedures		
	Notify the police and fire brigade immediately. If outside do not approach from		
reisonai prevautions.	Notity the police and fire brigade immediately. 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. Do not		
	attempt to take action without suitable protective clothing - see section 8 of SDS. Do not		
	create dust.		
6.2. Environmental precautions			
•			
•	Do not discharge into drains or rivers.		
6.3. Methods and material for c	containment and cleaning up		
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		
	appropriate method.		
6.4. Reference to other section	IS		
Reference to other sections:	Refer to section 8 of SDS.		_
Section 7: Handling and storage	ge		

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#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.

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 a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Light Sensitive. Air sensitive. 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

#### 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 exhaust ventilation of the area. The floor of the storage room must be	
	impermeable to prevent the escape of liquids.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Particle	
	filter class P1 (EN143).	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses with side-shields. 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

Colour: Orange

#### Melting point/range °C: 110-111

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.

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### 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. Light. Air.

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. 3)	INH DRM ING	Based on test data
STOT-repeated exposure	-	Based on test data

### Symptoms / routes of exposure

Skin contact:	There may be redness or whiteness of the skin in the area of exposure. Irritation or pain
	may occur at the site of contact. Absorption through the skin may be fatal.
Eye contact:	There may be severe pain. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be vomiting.
	Convulsions may occur. There may be loss of consciousness.
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption
	through the lungs can occur causing symptoms similar to those of ingestion.
	Convulsions may occur. There may be loss of consciousness.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.
Other information:	RTECS: XU8060000

## Section 12: Ecological information

12.1. Toxicity

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### **Ecotoxicity values:**

Species	Test	Value	Units
Pimephales Promelas (fathead minnows)	96H LC50	21.8	mg/l
Daphnia magna	48H EC50	5.8	mg/l

#### 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: Toxic to aquatic organisms. Toxic to soil organisms.

#### 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.

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

regulations regarding disposal.

## Section 14: Transport information

#### 14.1. UN number

UN number: UN2660

#### 14.2. UN proper shipping name

Shipping name: NITROTOLUIDINES (MONO)

(5-Methyl-2-nitroaniline)

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

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Marine pollutant: Yes

## 14.5. Environmental hazards

Environmentally hazardous: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

## 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 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:	H301+311+331: Toxic if swallowed, in contact with skin or if inhaled.
	H373: May cause damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through</or>
	prolonged or repeated exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven="" route="" th="" that<=""></state>
	no other routes of exposure cause the hazard>.
	H411: Toxic to aquatic life with long lasting effects.
	R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
	R33: Danger of cumulative effects.
	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
Legend to abbreviations:	PNEC = predicted no effect level
	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	EC50 = median effective concentration
	IC50 = median inhibitory concentration

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dw = dry weight bw = body weight cc = closed cupoc = open cup MUS = mouse 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 Legal disclaimer: The material is intended for research purposes only and should be handled exclusively

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