

BENZYLMAGNESIUM BROMIDE 1M SOLUTION IN DEE

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

1.1. Product identifier

Product name: BENZYLMAGNESIUM BROMIDE 1M SOLUTION IN DEE

CAS number: 100-58-3

Product code: OR320067

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:	Flam. Liq. 2: H225; Skin Corr. 1B: H314; Water-react. 1: H260; STOT SE 3: H336; -:		
	EUH014; -: EUH019		
Most important adverse effects:	Highly flammable liquid and vapour. In contact with water releases flammable gases		
	which may ignite spontaneously. Causes severe skin burns and eye damage. May		
	cause drowsiness or dizziness. Reacts violently with water. May form explosive		
	peroxides.		
2.2. Label elements			
Label elements:			
Hazard statements:	H225: Highly flammable liquid and vapour.		
	H260: In contact with water releases flammable gases which may ignite spontaneously.		
	H314: Causes severe skin burns and eye damage.		
	H336: May cause drowsiness or dizziness.		
	EUH014: Reacts violently with water.		
	EUH019: May form explosive peroxides.		

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 Signal words:
 Danger

 Hazard pictograms:
 GHS05: Corrosion

 GHS07: Exclamation mark
 GHS02: Flame

 Output
 Output

 Precautionary statements:
 P260: Do not breathe fumes.

 P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

3.2. Mixtures

Hazardous ingredients:

DIETHYL ETHER

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-467-2	60-29-7	-	Flam. Liq. 1: H224; Acute Tox. 4: H302; STOT SE 3: H336; -: EUH019; -: EUH066	70-90%

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-	-	-	Water-react. 1: H260; Skin Corr. 1B:	
			H314	

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.

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4.2. Most important symptoms	and effects, both acute and delayed
Skin contact:	There may be irritation and redness at the site of contact.
	There may be irritation and redness. The eyes may water profusely.
-	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 immediat	e medical attention and special treatment needed
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Section 5: Fire-fighting measu	res
5.1. Extinguishing media	
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the
	surrounding fire should be used.
5.2. Special hazards arising fro	
Exposure nazards:	Highly flammable. Forms explosive air-vapour mixture. Vapour may travel considerable
	distance to source of ignition and flash back. In combustion emits toxic fumes of carbon
	dioxide / carbon monoxide. Hydrogen bromide (HBr). Magnesium oxides.
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	neasures
6.1. Personal precautions, prot	ective 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	
•	
-	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3. Methods and material for c	ontainment 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 section	S

Section 7: Handling and storage

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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 storag	e, 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. Light Sensitive.	
	Product reacts with water. Take precautions to avoid contact with atmospheric moisture.	
	Store under Argon. Dry residue is explosive. Test for peroxide formation periodically and	
	before distillation.	
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

Hazardous ingredients:

DIETHYL ETHER

Workplace exposure limits:

Workplace exposure limits:		Respirable dust		
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	310 mg/m3	620 mg/m3	-	-

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. Fluorinated rubber gloves.	
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: Solution

Evaporation rate: No data available.

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Oxidising:	No data available.			
Solubility in water:	No data available.			
Viscosity:	No data available.			
Boiling point/range °C:	No data available.	Melting point/range °C:	No data available.	
Flammability limits %: lower:	No data available.	upper:	No data available.	
Flash point ℃:	No data available.	Part.coeff. n-octanol/water:	No data available.	
Autoflammability °C:	No data available.	Vapour pressure:	No data available.	
Relative density:	No data available.	pH:	No data available.	
VOC g/l:	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.

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. Light. 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

bromide gas (HBr). Magnesium oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DIETHYL ETHER

DERMAL	RBT	LD50	>14.2	g/kg
INHALATION	RAT	4H LC50	32000	ppm
ORAL	RAT	LD50	1215	mg/kg

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Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	Hazardous: calculated
Skin corrosion/irritation	DRM	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

Hazardous ingredients:

DIETHYL ETHER

Daphnia magna	24H EC50	165	mg/l
Desmodesmus subspicatus (green algae)	72H EC50	>100	mg/l
Pimephales promelas (fathead minnow)	96H LC50	2560	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: 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

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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: UN3399

14.2. UN proper shipping name

Shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE (PHENYLMAGNESIUM BROMIDE)

14.3. Transport hazard class(es)

Transport class: 4.3 (3)

14.4. Packing group

Packing group: |

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: B/E

Transport category: 0

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/oecd-qsar-toolbox

~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-

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Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/

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Phrases used in s.2 and s.3:	EUH014: Reacts violently with water.
	EUH019: May form explosive peroxides.
	EUH066: Repeated exposure may cause skin dryness or cracking.
	H224: Extremely flammable liquid and vapour.
	H225: Highly flammable liquid and vapour.
	H260: In contact with water releases flammable gases which may ignite spontaneously.
	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H336: May cause drowsiness or dizziness.
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