Safety Data Sheet

1. Identification of the substance

1.1. Product identifiers: Product Name: Hex-5-enylmagnesium bromide, 0.5M in THF

Synonyms:

Catalog number: QW-9409 CAS Number: 30043-41-5

1.2. Identified use: Laboratory chemicals, for scientific research and development only.

1.3. Supplier: Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-

635-8950. Email: sales@combi-blocks.com.

1.4. Emergency Contact: During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. Af-

ter business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (interna-

tional).

2. Hazards identification

2.1. Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Pyrophoric liquids; Pyrorophoric solids (Category 1), H250

Substances And Mixtures Which, In Contact With Water, Emit Flammable Gases (Cate-

gory 1), H260

Skin corrosion/irritation (Category 1A, B, C), H314

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),

H335

Carcinogenicit (Category 2), H351

2.2. GHS Label elements, including precautionary statements:

Pictograms !!

Signal word Danger

Hazard statement(s).

H225 Highly flammable liquid and vapourH250 Catches fire spontaneously if exposed to air

H260 In contact with water releases flammable gases which may ignite spontaneously

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritationH351 Suspected of causing cancer

Precautionary statement(s).

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P222 Do not allow contact with air.

P223 Keep away from any possible contact with water, because of violent reaction and possible

flash fire.

P231+P232 Handle under inert gas. Protect from moisture.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/light equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P301+P310+P330+P33	If swallowed: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
P303+P361+P353+P31	0 If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
P304+P340+P310	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338+P31	0 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P403+P233+P235	Store in a well ventilated place. Keep container tightly closed. Keep cool.
P405	Store locked up.

3. Composition/information on ingredients.

3.1. Substances

P501

COMPONENT	CLASSIFICATION	CONCENTRATION
Hex-5-enylmagnesium bromide, 0.5M in THF	H225, H250, H260, H314, H335,	≤ 100
	H351	

Dispose of contents/container to an approved waste disposal plant.

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Im-

mediately call a POISON CENTER or doctor/physician.

In case of skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce

vomiting.

4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

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

No data.

5. Fire fighting measures

5.1. Extinguishing media: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

5.2. Special hazards arising from the substance or mixture: Carbon monoxide, hydrogen bromide.

5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information: No data available.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

- 6.3. Methods and materials for containment and cleaning up:
 - Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4. Reference to other sections:
 - Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

- Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away 7.1. Precautions for safe handling: from sources of ignition - No smoking. Take measures to prevent the build up of electro
 - static charge. For precautions see section 2.2.
- Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated

place. Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

7.3. Specific end use(s): Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

8.1. Control parameters:

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2. Exposure controls:

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation

location. Ensure adequate ventilation, especially in confined areas. Use only under a chemical fume hood. Ground/bond container and receiving equipment. Use explosion-

proof electrical/ventilating/light equipment. Use only non-sparking tools.

Personal protective equipment:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's Eye/face protection:

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal Skin protection:

> technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., **Body Protection:**

The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Respiratory protection: No protective equipment is needed under normal use conditions.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a)	Appearance:	Liquid
(b)	Odour:	No data
(c)	Odour Threshold:	No data
(d)	pH:	No data
(e)	Melting point/freezing point:	No date.
(f)	Initial boiling point and boiling range:	No data
(g)	Flash point:	No data
(h)	Evaporatoin rate:	No data
(i)	Flammability (solid, gas):	No data
(j)	Upper/lower flammability or explosive limits:	No data
(k)	Vapour pressure:	No data
(1)	Vapour density:	No data
(m)	Relative density:	No data
(n)	Water solubility:	No data
(o)	Partition coefficient: n-octanol/water:	No data
(p)	Auto-ignition:	No data
(q)	Decomposition temperature:	No data
(r)	Viscosity:	No data
(s)	Explosive properties:	No data
(t)	Oxidizing properties:	No data

9.2. Other safety information:

10. Stability and reactivity

10.1. Reactivity No data

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions No data

10.4. Conditions to avoid Air, flame, heat, moisture, spark, static-discharge, water

10.5. Incompatible material Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously com-

bustible substances, substances which are dangerous when wet, oxidizing substances, or-

ganic peroxides, poisons, infectious substances, radioactive materials.

10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon monoxide, hydrogen bromide.

Other decomposition products: No data
In the event of fire: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data available. Skin irritation/corrosion: No data available.

Eye damage/irritation: Causes severe skin burns and eye damage.

Respiratory or skin sensitization: May cause respiratory irritation.

Germ cell mutagenicity: No data available.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: No data available.

Specific target organ system toxicity - single exposure: No data available. Specific target organ system toxicity - repeated exposure: No data available.

Aspiration hazard: No data available.

Additional information: To the best of our knowledge, the chemical, physical and toxicological proper-

ties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity
No data available.
12.2. Persistence and degradability
No data available.
12.3. Bioaccumulative potential
No data available
No data available
No data available.
12.5. Results of PBT and vPvB assessment
No data available.
12.6. Other adverse effects
No data available.

13. Disposal Considerations

13.1. Waste treatment methods

Product Arrange disposal as special waste, by licensed disposal company, in consultation with

local waste disposal authority, in accordance with national and regional regulations.

Contaminated packaging Dispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number: UN3399 Class: 4.3(3) Packing group: I

Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.