# 2. HAZARDS IDENTIFICATION Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable liquids (Category 2) Substances, which in contact with water, emit flammable gases (Category 2)

Skin corrosion (Category 1B)

Specific target organ toxicity - single exposure (Category 3)

According to European Directive 67/548/EEC as amended. Highly flammable. Contact with water liberates extremely flammable gases. Causes burns. Irritating to

respiratory system. Reacts violently with water. May form explosive peroxides. Label elements

Pictogram

S-phrase(s)

Other hazards - none

109-99-9

Signal word Danger Hazard statement(s)

H225 Highly flammable liquid and vapour. In contact with water releases flammable gases. H261 Causes severe skin burns and eye damage. H314

May cause respiratory irritation. H335 **EUH014** Reacts violently with water. May form explosive peroxides. **EUH019** Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P231 + P232

Handle under inert gas. Protect from moisture. Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Wear protective gloves/protective clothing/eye protection/face protection. P280

IF IN EYES: Rinse cautiously with water for several minutes. Remove P305 + P351 + P338contact lenses, if present and easy to do. Continue rinsing.

P422 Store contents under inert gas. Hazard symbol(s) F Highly flammable  $\mathbf{C}$ Corrosive

R-phrase(s) R11 Highly flammable.

Reacts violently with water, liberating extremely flammable gases. R14/15 May form explosive peroxides. R19

R34 Causes burns. R37 Irritating to respiratory system.

Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. S16 In case of contact with eyes, rinse immediately with plenty of water and S26 seek medical advice. S36/37/39

Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately S45 (show the label where possible). S43 In case of fire, use dry powder. Never use water.

3. COMPOSITION/INFORMATION ON INGREDIENTS Formula :  $HC \equiv CMgBr$ Classification Concentration CAS-No. EC-No.

H314, EUH014

H335, EUH019

F, C, R11 - R14/15 - R34

Flam. Liq. 2; Eye Irrit. 2;

STOT SE 3; H225, H319,

>= 6 %

<= 94 %

**Ethynylmagnesium bromide** 4301-14-8 Flam. Liq. 2; Water-react 2; Skin Corr. 1B; H225, H260,

# Tetrahydrofuran

203-726-8

F, Xi, R11 - R19 - R36/37 For the full text of the H-Statements mentioned in this Section, see Section 16. 4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Carbon dioxide (CO2) Dry powder

**Environmental precautions** 

7. HANDLING AND STORAGE

charge.

**Precautions for safe handling** Avoid inhalation of vapour or mist.

**Respiratory protection** 

Hand protection Handle with gloves.

Eye protection

the end of workday.

**Appearance** 

Form

Melting point

Boiling point

Flash point

Density

Conditions to avoid

Materials to avoid

no data available

Magnesium oxide

**Acute toxicity** no data available

no data available

Carcinogenicity

Skin

Eyes

**Toxicity** 

no data available

Mobility in soil no data available

no data available

no data available

**Product** 

**IMDG** 

**IATA** 

Other adverse effects

**Additional Information** RTECS: no data available

12. ECOLOGICAL INFORMATION

Reproductive toxicity

Heat, flames and sparks. Exposure to moisture.

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation

Respiratory or skin sensitization

Skin corrosion/irritation

Eyes: no data available

Ignition temperature

Lower explosion limit

Upper explosion limit

Skin and body protection

physician.

Water

In case of skin contact

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

6. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

explosive concentrations. Vapours can accumulate in low areas.

Extinguishing media which shall not be used for safety reasons

Wear self contained breathing apparatus for fire fighting if necessary.

Special protective equipment for fire-fighters

### Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush with water.

Methods and materials for containment and cleaning up

**Conditions for safe storage** Store in cool place. 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.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Recommended storage temperature: 2 - 8 °C Air and moisture sensitive. hygroscopic Store under inert gas. Dry residue is explosive. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Personal protective equipment

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Tightly fitting safety goggles. Faceshield (8-inch minimum).

liquid

no data available

0,94 g/cm3 at 25 °C

-29 °C

standards such as NIOSH (US) or CEN (EU).

Safety data no data available рН

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

no data available Water solubility 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions Reacts violently with water.

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas,

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if absorbed through skin. Causes skin burns.

probable, possible or confirmed human carcinogen by IARC.

Causes eye burns.

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical

flammable. Observe all federal, state, and local environmental regulations.

incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly

Packing group: II

Packing group: II

Packing group: II

EMS-No: F-G, S-N

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

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

# no data available Germ cell mutagenicity no data available

no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects May be harmful if inhaled. Material is extremely destructive to the tissue of the Inhalation mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes burns.

no data available **Bioaccumulative potential** no data available

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Persistence and degradability

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION ADR/RID

UN-Number: 3399 Class: 4.3 (3)

UN-Number: 3399 Class: 4.3 (3)

Ethynylmagnesium bromide)

Ethynylmagnesium bromide)

Marine pollutant: No

# UN-Number: 3399 Class: 4.3 (3) Proper shipping name: Organometallic substance, liquid, water-reactive, flammable (, Ethynylmagnesium bromide)

15. REGULATORY INFORMATION

16. OTHER INFORMATION

**EUH014** 

**EUH019** 

H314

H319

C

F

R14/15 R19

R36/37

R34

Xi

Eye irritation Eye Irrit. Flammable liquids Flam. Liq. H225 Highly flammable liquid and vapour. H260 In contact with water releases flammable gases which may ignite spontaneously.

Text of H-code(s) and R-phrase(s) mentioned in Section 3

May cause respiratory irritation. H335 Skin Corr. Skin corrosion Specific target organ toxicity - single exposure STOT SE

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Reacts violently with water.

May form explosive peroxides.

Causes serious eye irritation.

May form explosive peroxides.

Irritating to eyes and respiratory system.

Causes severe skin burns and eye damage.

Substances, which in contact with water, emit flammable gases Water-react Corrosive Highly flammable R11 Highly flammable.

Causes burns.

**Irritant** 

**Further information** For R&D use only. Not for drug, household or other uses. WARRANTY:

Reacts violently with water, liberating extremely flammable gases.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any www.lookchem.com damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.