



## MAXGARD® 2800

## SAFETY DATA SHEET

Replaced Version 2016-01-19  
Revision Date 2016-02-03

### 1. PRODUCT AND COMPANY INFORMATION

Product Name : Proprietary  
Product Number : MAXGARD® 2800  
Brand : MAXGARD®  
REACH Status : Components pre-registered 2008-07-17  
Identified Uses : UV stabilizer; Laboratory chemicals; Manufacture of substances  
Company : Lycus Ltd., LLC  
181 Cooper Drive  
El Dorado, AR 71730-6601  
USA  
  
Telephone : +1 870-881-5000  
Fax : +1 870-862-9628  
Emergency Phone Number : +1 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

**OSHA Hazards** Irritant, Harmful by ingestion.

#### GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

#### Hazard statement(s)

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection/face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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|                    |  |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P321               | Specific treatment (see supplemental first aid instructions on this label).  |
| P330               | Rinse mouth.   |
| P332 + P313        | If skin irritation occurs: Get medical advice/attention.   |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |
| P362               | Take off contaminated clothing and wash before reuse.  |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P405               | Store locked up.   |
| P501               | Dispose of contents/container to an approved waste disposal plant.   |

### HMIS Classification

|                     |   |   |
|---------------------|---|---|
| Health Hazard       | 1 | Blue  |
| Flammability        | 2 | Red   |
| Physical Hazards    | 0 | Orange  |
| Personal Protection | H | Safety Glasses, Gloves, Synthetic Apron, Vapor Respirator |

### NFPA 704 Rating

|                   |   |        |
|-------------------|---|--------|
| Health Hazard     | 1 | Blue   |
| Fire              | 2 | Red    |
| Reactivity Hazard | 0 | Yellow |

### Potential Health Effects

|            |   |
|------------|---|
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. |
| Skin       | Harmful if absorbed through skin. Causes skin irritation.       |
| Eyes       | Causes eye irritation.  |
| Ingestion  | Harmful if swallowed.   |

### EU/International Classification of the substance or mixture

#### According to Regulation (EC) No1272/2008

Acute toxicity, Oral (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity – single exposure (Category 3)

#### According to European Directive 67/548/EEC as amended.

Irritating to eyes, respiratory system and skin.

### EU/International Label elements

#### Hazard symbol(s)

Xn Harmful

#### R-phrases(s)

R22, R36/37/38 Harmful if swallowed. Irritating to eyes, respiratory system and skin.

#### S-phrases(s)

S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection.

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Revision Date 2016-02-03**Other Hazards**                      None**3. COMPOSITION/INFORMATION OF INGREDIENTS**Formula                               :       Proprietary  
Molecular Weight                :       Proprietary  
Synonyms                           :       N/A

| CAS-No.  | EC-No. | Index-No. | EU/International Classification  | Concentration |
|--|--------|-----------|--|---------------|
| Proprietary, 100% Active powder light stabilizer |        |           |  |               |
| N/A  | N/A    | -         | Acute Tox. 4, Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H303, H315, H319, H335, Xn, R22, R36/37/38 | >99.0%        |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****General advice**

Move out of dangerous area. Remove contaminated clothing. 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.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes with eyelids held open. Consult a physician.

**If swallowed**

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

**Note to physician**

Treatment:                               Symptomatic treatment (decontamination, vital functions). No known specific antidote.

**5. FIRE-FIGHTING MEASURES**



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### Suitable extinguishing media

Use water spray, alcohol-resistant foam or dry chemical. Carbon dioxide is not recommended because it is an asphyxiant.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. – Carbon oxides

### Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and turn-out gear.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

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

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components



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tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Ensure respirators conform to 29 CFR 1910.134.

### Hand protection

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

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

Recommended: Protective index 6, corresponding >480 minutes of permeation time according to EN 374  
E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm)

Supplementary note Specifications are based on internal tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to the many conditions (e.g. temperature) that must be considered, the practical usage of a chemical protective glove in service may be much shorter than the determined permeation time.

### Eye protection

Eye and face protection conforming to 29 CFR 1910.133 or EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

### Skin and body protection

Complete suit protecting against chemicals. Impervious clothing, the type of protective clothing must be selected according to the concentration and amount of dangerous substance at the specific workplace.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|       |              |
|-------|--------------|
| Form  | powder       |
| Color | light yellow |

### Safety data

|                          |                                       |
|--------------------------|---------------------------------------|
| Odor                     | characteristic                        |
| pH                       | no data available                     |
| Melting point            | 126.0°C                               |
| Boiling point            | no data available                     |
| Flash point              | no data available                     |
| Ignition temperature     | no data available                     |
| Lower explosion limit    | no data available                     |
| Upper explosion limit    | no data available                     |
| Water solubility         | insoluble                             |
| Solubility (qualitative) | soluble; solvent(s): organic solvents |
| Density                  | 1.24 g/cm <sup>3</sup> (25 °C)        |

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## 10. STABILITY AND REACTIVITY



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### Chemical stability

Stable under recommended storage conditions

### Conditions to avoid

No conditions known that should be avoided

### Materials to avoid

Strong oxidizing agents, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon oxides  
Other decomposition products – no data available

### Corrosion to metals

No corrosive effect on metal

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

|            |  |
|------------|--|
| Oral       | LD50/rat: 1,225 mg/kg – lit.   |
| Remarks    | Behavioral: Somnolence (general depressed activity).<br>Behavioral: Food intake (animal). Diarrhoea.<br>IVN-mus: LD50=85 mg/kg |
| Dermal     | no data available  |
| Inhalation | no data available  |

### Skin corrosion/irritation

|                 |                                    |
|-----------------|------------------------------------|
| Skin irritation | rabbit: non-irritant (Draize test) |
|-----------------|------------------------------------|

### Serious eye damage/eye irritation

|                |  |
|----------------|--|
| Eye irritation | rabbit: moderate eye irritation – 24 h |
|----------------|--|

### Respiratory or skin sensitization

Mouse Local Lymph Node Assay (LLNA)/mouse: Non-sensitizing

### Germ cell mutagenicity

Genotoxicity in vitro – mouse – lymphocyte  
Cytogenetic analysis

Genotoxicity in vitro – mouse – lymphocyte  
Sister chromatid exchange

### Carcinogenicity

|       |   |
|-------|---|
| IARC  | No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen by IARC. |
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  |
| NTP   | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.       |
| OSHA  | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.   |

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### Reproductive toxicity

No data available

### Specific target organ toxicity – single exposure

Inhalation                      May cause respiratory irritation.

### Specific target organ toxicity – repeated exposure

No data available

### Aspiration hazard

No data available

### Potential health effects

|            |  |
|------------|--|
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation.  |
| Ingestion  | Harmful if swallowed.  |
| Skin       | May be harmful if absorbed through skin. Causes skin irritation. |
| Eyes       | Causes eye irritation.   |

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Additional Information

RTECS                      N/A

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## 12. ECOLOGICAL INFORMATION

### Eco toxicity

Acute and Chronic toxicity to fish

|   |  |
|---|--|
| DIN 38412 Part 15 static golden orfe/LC50 (96 h): | 22 - 46 mg/l<br>The details of the toxic effect relate to the nominal concentration. |
|---|--|

Acute toxicity to aquatic microorganisms

|   |   |
|---|---|
| DIN 38412 Part 27 (draft) bacterium/EC50 (0.5 h): | 5,800 mg/l<br>The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration. |
|---|---|

|   |         |
|---|---------|
| OECD Guideline 209 aerobic activated sludge, domestic/EC20 (0.5 h): | 34 mg/l |
|---|---------|

Acute toxicity to aquatic invertebrates

|  |   |
|--|---|
| OECD Guideline 202 static green algae/EC50 (48 h): | 52.5 mg/l<br>The details of the toxic effect relate to the nominal concentration. |
|--|---|

Acute toxicity to aquatic plants



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OECD Guideline 201 static green algae/EC50 (0.5 h): 27.9 mg/l  
The details of the toxic effect relate to the nominal concentration.

**Persistence and degradability**

Biodegradation

Test method: OECD 301E; 84/449/EEC, C.3 (aerobic), activated sludge, domestic  
Method of analysis: DOC reduction  
Degree of elimination: 0-10% (28 d)

Test method: OECD Guideline 302 B (aerobic), activated sludge, domestic  
Method of analysis: DOC reduction  
Degree of elimination: 90-100% (28 d)

Evaluation: Not readily biodegradable (by OECD criteria). Poor biodegradability. Easily eliminated from water.

**Bio accumulative potential**

Not expected to cause significant accumulation in organisms.

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable materials to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**RCRA requirements**

None

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**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods





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**TDG (Canada)**

Not dangerous goods

**ICAO/IATA**

Not dangerous goods

**ADR/RID**

Not dangerous goods

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**15. REGULATORY INFORMATION**

**OSHA Hazards**

Irritant, Harmful by ingestion.

**TSCA Inventory**

Components are listed/approved

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312**

Acute Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

**CAS No.                      Revision Date**

Proprietary

**New Jersey Right to Know Components**

**CAS No.                      Revision Date**

Proprietary

**California Prop. 65 Components**

This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**DSL Status**

Components are on the Canadian DSL list

**WHMIS Classification**

|     |  |                               |
|-----|--|-------------------------------|
| D2B | Toxic Material Causing Other Toxic Effects | Moderate skin irritant        |
|     |  | Moderate respiratory irritant |
|     |  | Moderate eye irritant         |

**WGK (Water Danger/Protection)**

Components                      WGK1



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**Regulation (EC) No. 1907/2006**

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

**16. OTHER INFORMATION**

In accordance with good practices of personal cleanliness and hygiene handle with due care and avoid unnecessary contact with this product.

This information is being supplied to you under OSHA "Right to Know / Right to Understand" Regulation 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The information contained herein is based on the data available to us and is believed to be true and accurate.

No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the material, or the results obtained from the use thereof, is made. Lycus Ltd. assumes no responsibility for damage or injury from the use of the product described herein.

Lycus Ltd. certifies this product:

- Does not contain any ingredient of animal origin.
- Does not contain the beverage alcohol and beverage alcohol has not been used in the manufacturing process.

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

|               |  |
|---------------|--|
| Acute Tox.    | Acute toxicity                                   |
| Eye Irrit.    | Eye irritation                                   |
| H302          | Harmful if swallowed                             |
| H315          | Causes skin irritation                           |
| H319          | Causes serious eye irritation                    |
| H335          | May cause respiratory irritation                 |
| Skin Irrit.   | Skin irritation                                  |
| Eye Irrit. 2. | Eye irritation                                   |
| STOT SE       | Specific target organ toxicity – single exposure |
| Xn            | Harmful  |
| R22           | Harmful if swallowed                             |
| R36/37/38     | Irritating to eyes, respiratory system and skin  |

**Further information**

Copyright 2016 Lycus Ltd. License granted to make unlimited paper copies for internal use only. 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. Lycus Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.

|                  |                  |
|------------------|------------------|
| Data prepared:   | December 1, 2015 |
| Date of revision | December 7, 2015 |
| Date of revision | January 19, 2016 |
| Date of revision | February 3, 2016 |