

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 07.03.2013

Revision: 07.03.2013

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

- **1.1 Product identifier**
- **Trade name:** **MODEL 2400 12ga Inert Powder Barricade Projectile**
- **Article number:** Model 2400
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Explosive product.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Combined Systems, Inc.
388 Kinsman Rd.
Jamestown, PA 16134
Phone: (724) 932-2177
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H360Df, H412.
The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H360.



H360: May damage fertility or the unborn child



GHS01 exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



GHS06 skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS08 health hazard

Repr. 1B H360Df May damage the unborn child. Suspected of damaging fertility.



GHS07

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Acute Tox. 4 H332 Harmful if inhaled.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.



Xn; Harmful

R40-48: Limited evidence of a carcinogenic effect. Danger of serious damage to health by prolonged exposure.



E; Explosive

R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R33: Danger of cumulative effects.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS01 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

glycerol trinitrate
dibutyl phthalate
diphenylamine

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H360Df, H412.

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The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H360.

H360: May damage fertility or the unborn child

H204 Fire or projection hazard.

H311 Toxic in contact with skin.

H332 Harmful if inhaled.

H360Df May damage the unborn child. Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements**

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

P250 Do not subject to grinding/shock/friction.

P281 Use personal protective equipment as required.

P373 DO NOT fight fire when fire reaches explosives.

P372 Explosion risk in case of fire.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

• **Additional information:**

Can become highly flammable in use.

Restricted to professional users.

• **Hazard description:**

• **WHMIS-symbols:**

F - Dangerously reactive material



• **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 2

Reactivity = 3

• **HMIS-ratings (scale 0 - 4)**



Health = 3

Fire = 2

Reactivity = 3

• **HMIS Long Term Health Hazard Substances**

122-39-4 | diphenylamine

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

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











WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3 Composition/information on ingredients

3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

| | | |
|--|---|--------|
| CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0 | magnesium oxide substance with a Community workplace exposure limit | >50% |
| CAS: 9004-70-0 EC number: 603-037-0 | Nitrocellulose, colloided, granular  E R1-3  Unst. Expl., H200 | 10-25% |
| CAS: 68611-44-9 EINECS: 271-893-4 | silica dimethyl silyate | <10% |
| CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X | glycerol trinitrate  T+ R26/27/28;  E R3;  N R51/53 R33  Unst. Expl., H200  Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330  STOT RE 2, H373  Aquatic Chronic 2, H411 Flam. Liq. 2, H225 | <10% |
| CAS: 7440-50-8 EINECS: 231-159-6 | copper substance with a Community workplace exposure limit | <10% |
| CAS: 84-74-2 EINECS: 201-557-4 Index number: 607-318-00-4 | dibutyl phthalate  T Repr. Cat. 2, 3 R61;  Xn R62;  N R50  Repr. 1B, H360Df  Aquatic Acute 1, H400 | <1,0% |
| CAS: 7757-79-1 EINECS: 231-818-8 | potassium nitrate  O R8  Ox. Sol. 2, H272 | <1,0% |
| CAS: 10022-31-8 EINECS: 233-020-5 Index number: 056-002-00-7 | barium nitrate  Xn R20/22  Acute Tox. 4, H302; Acute Tox. 4, H332 | <1,0% |
| CAS: 12403-82-6 EINECS: 235-642-2 | dihydroxy[styphnato(2-)]dilead / lead styphnate  T R23/25;  Xn R40-48-62;  E R3;  N R50/53 R33 | <1,0% |

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| CAS: 1345-04-6 EINECS: 215-713-4 | antimony sulphide | <1,0% |
| CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5 | diphenylamine  T R23/24/25;  N R50/53 R33  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | <1,0% |
| CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-00-1 | zinc powder -zinc dust (pyrophoric)  F R15-17;  N R50/53  Pyr. Sol. 1, H250; Water-react. 1, H260  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | <1,0% |
| • SVHC | | |
| 84-74-2 | dibutyl phthalate | |
| • Additional information: For the wording of the listed risk phrases refer to section 16. | | |

4 First aid measures

• 4.1 Description of first aid measures

• **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

• **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

• 4.2 Most important symptoms and effects, both acute and delayed

Coughing

Breathing difficulty

• **Hazards** Danger of disturbed cardiac rhythm.

• 4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

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Treat skin and mucous membrane with antihistamine and corticoid preparations.

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5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Eliminate all ignition sources if safe to do so.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Protect from heat.
Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling**
Handle with care. Avoid jolting, friction and impact.
Keep away from heat and direct sunlight.

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- **Information about fire - and explosion protection:**
Prevent impact and friction.
Keep respiratory protective device available.
Emergency cooling must be available in case of nearby fire.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**
Store in dry conditions.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

1309-48-4 magnesium oxide

| | |
|-------------|---|
| PEL (USA) | 15* mg/m ³ fume; *total particulate |
| TLV (USA) | 10* mg/m ³ *as inhalable fraction |
| EL (Canada) | Short-term value: 10** mg/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume; **respirable dust and fume |
| EV (Canada) | 10 mg/m ³ inhalable |

10022-31-8 barium nitrate

| | |
|-------------|--------------------------------|
| IOELV (EU) | 0,5 mg/m ³ as Ba |
| PEL (USA) | 0,5 mg/m ³ as Ba |
| REL (USA) | 0,5 mg/m ³ as Ba |
| TLV (USA) | 0,5 mg/m ³ as Ba |
| EL (Canada) | 0,5 mg/m ³ as Ba |

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55-63-0 glycerol trinitrate

| | |
|-------------|---|
| PEL (USA) | Short-term value: C 2 mg/m ³ , C 0,2 ppm Skin |
| REL (USA) | Short-term value: 0,1 mg/m ³ Skin |
| TLV (USA) | 0,46 mg/m ³ , 0,05 ppm Skin |
| EL (Canada) | 0,05 ppm Skin |
| EV (Canada) | 0,5 mg/m ³ , 0,05 ppm Skin |

84-74-2 dibutyl phthalate

| | |
|-------------|--------------------------|
| PEL (USA) | 5 mg/m ³ |
| REL (USA) | 5 mg/m ³ |
| TLV (USA) | 5 mg/m ³ |
| EL (Canada) | 5 mg/m ³ R |
| EV (Canada) | 5 mg/m ³ |

7440-50-8 copper

| | |
|-------------|--|
| PEL (USA) | 1* 0,1** mg/m ³ as Cu *dusts and mists **fume |
| REL (USA) | 1* 0,1** mg/m ³ as Cu *dusts and mists **fume |
| TLV (USA) | 1* 0,2** mg/m ³ *dusts and mists; **fume; as Cu |
| EL (Canada) | 1* 0,2** mg/m ³ *dusts and mists; **fume |
| EV (Canada) | 0,2* 1** mg/m ³ as copper, *fume; **dust and mists |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present.

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- **Protection of hands:**

Not required for handling under normal conditions.
Wear protective gloves to handle contents of damaged or leaking units.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Not required under normal conditions of use.

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid material

Colour: Grey

- **Odour:** Odourless

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

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| | |
|---|--|
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Not determined. |
| · Ignition temperature: | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not self-igniting. |
| · Danger of explosion: | Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| · Explosion limits: Lower: | Not determined. |
| Upper: | Not determined. |
| · Vapour pressure: | Not applicable. |
| · Density: | Not determined. |
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |
| · Solubility in / Miscibility with water: | Soluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Solvent content: Organic solvents: | Not determined. |
| Solids content: | Not determined. |
| · 9.2 Other information | No further relevant information available. |

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Danger of explosion.
Reacts with acids, alkalis and oxidizing agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Irritant gases/vapours

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Leadoxide vapour
Bariumoxide vapour
Toxic metal compounds
Carbon monoxide and carbon dioxide

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

10022-31-8 barium nitrate

| | | |
|------|------|-----------------|
| Oral | LD50 | 355 mg/kg (rat) |
|------|------|-----------------|

55-63-0 glycerol trinitrate

| | | |
|--------|------|--------------------------------------|
| Oral | LD50 | 115 mg/kg (mouse) 105 mg/kg (rat) |
| Dermal | LD50 | 29 mg/kg (rat) 280 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Toxic

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

· **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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Toxic for aquatic organisms

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- | | |
|---|--|
| · 14.1 UN-Number | |
| · DOT, ADR, IMDG, IATA | UN0339 |
| · 14.2 UN proper shipping name | |
| · DOT | Cartridges for weapons, Inert projectile, UN0339 |
| · ADR, IMDG | Cartridges for weapons, Inert projectile, UN0339 |
| · IATA | Cartridges for weapons, Inert projectile, UN0339 |
| · 14.3 Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 1.4 |
| · Label | 1.4 |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 1.4 |
| · Label | 1.4C |
| · 14.4 Packing group | |
| · DOT, ADR, IMDG, IATA | II |

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| | |
|---|---|
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | US DOT PHMSA Explosives 9802116-12GA Powder Projectile, Inert |
| · UN "Model Regulation": | UN0339, 0339, 1.4C, II |

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

| | |
|-----------|-------------------------------------|
| 55-63-0 | glycerol trinitrate |
| 7440-50-8 | copper |
| 84-74-2 | dibutyl phthalate |
| 7440-66-6 | zinc powder -zinc dust (pyrophoric) |
| 122-39-4 | diphenylamine |

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

84-74-2 | dibutyl phthalate

- **Chemicals known to cause reproductive toxicity for males:**

84-74-2 | dibutyl phthalate

- **Chemicals known to cause developmental toxicity:**

84-74-2 | dibutyl phthalate

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

| | | |
|-----------|-------------------|---|
| 7440-50-8 | copper | D |
| 84-74-2 | dibutyl phthalate | D |

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
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| | | |
|------------|-------------------------------------|-----|
| 7440-66-6 | zinc powder -zinc dust (pyrophoric) | II |
| 10022-31-8 | barium nitrate | CBD |

· **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|-------------------|---|
| 1345-04-6 | antimony sulphide | 3 |
|-----------|-------------------|---|

· **TLV (Threshold Limit Value established by ACGIH)**

| | | |
|------------|-----------------|----|
| 1309-48-4 | magnesium oxide | A4 |
| 122-39-4 | diphenylamine | A4 |
| 10022-31-8 | barium nitrate | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

| | |
|----------|---------------|
| 122-39-4 | diphenylamine |
|----------|---------------|

· **Canadian Ingredient Disclosure list (limit 1%)**

| | |
|-----------|-----------------|
| 1309-48-4 | magnesium oxide |
| 7440-50-8 | copper |

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

| | |
|---------|-------------------|
| 84-74-2 | dibutyl phthalate |
|---------|-------------------|

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

| | |
|------|--|
| H200 | Unstable explosives. |
| H225 | Highly flammable liquid and vapour. |
| H250 | Catches fire spontaneously if exposed to air. |
| H260 | In contact with water releases flammable gases which may ignite spontaneously. |
| H272 | May intensify fire; oxidiser. |
| H300 | Fatal if swallowed. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |

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| | |
|-----------|--|
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| R1 | Explosive when dry. |
| R15 | Contact with water liberates extremely flammable gases. |
| R17 | Spontaneously flammable in air. |
| R20/22 | Harmful by inhalation and if swallowed. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R23/25 | Toxic by inhalation and if swallowed. |
| R26/27/28 | Very toxic by inhalation, in contact with skin and if swallowed. |
| R3 | Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| R33 | Danger of cumulative effects. |
| R40 | Limited evidence of a carcinogenic effect. |
| R48 | Danger of serious damage to health by prolonged exposure. |
| R50 | Very toxic to aquatic organisms. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R61 | May cause harm to the unborn child. |
| R62 | Possible risk of impaired fertility. |
| R8 | Contact with combustible material may cause fire. |

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

Sources

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