

# Philadelphia Coatings LLC

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## Safety Data Sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name and code **PhilaAtria Plastic P**

Chemical name and synonym **Epoxy modified**

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use

#### 1.3. Details of the supplier of the safety data sheet

Name **Philadelphia Coatings LLC**  
Full address **Americas Office: 6 Georgian Row, The Woodlands, Texas**  
District and Country **TX 77380, USA**  
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**Chemical emergency response numbers: [1-800-255-3924](tel:1-800-255-3924) for Domestic and [+1-813-248-0585](tel:+1-813-248-0585) for International.**  
**Shipments of hazardous materials within the listed countries should reference ChemTel's in-county phone numbers:**  
**Australia: [1-300-954-583](tel:1-300-954-583), Brazil: [0-800-591-6042](tel:0-800-591-6042), China: [400-120-0751](tel:400-120-0751), India: [000-800-100-4086](tel:000-800-100-4086), Mexico: [01-800-099-0731](tel:01-800-099-0731)**

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

|  |      |  |
|--|------|--|
| Flammable liquid, category 3                                       | H226 | Flammable liquid and vapour.   |
| Eye irritation, category 2   | H319 | Causes serious eye irritation.   |
| Skin irritation, category 2  | H315 | Causes skin irritation.  |
| Respiratory sensitization, category 1                              | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization, category 1                                     | H317 | May cause an allergic skin reaction.                                       |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects.                           |

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### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

|        |  |
|--------|--|
| H226   | Flammable liquid and vapour.   |
| H319   | Causes serious eye irritation.   |
| H315   | Causes skin irritation.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317   | May cause an allergic skin reaction.                                       |
| H411   | Toxic to aquatic life with long lasting effects.                           |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction.             |

Precautionary statements:

|           |  |
|-----------|--|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233      | Keep container tightly closed.   |
| P264      | Wash . . . thoroughly after handling.  |
| P284      | [In case of inadequate ventilation] wear respiratory protection.                               |
| P304+P340 | IF INHALED: remove person to fresh air and keep comfortable for breathing.                     |
| P342+P311 | If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . .                    |

Contains:

Bisphenol A epoxy resin

### 2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients.

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

## Safety Data Sheet

| Identification.                                    | Conc. %.  | Classification 1272/2008 (CLP).  |
|--|-----------|--|
| <b>Bisphenol A epoxy resin</b>                     |           |  |
| CAS. 25068-38-6                                    | 40 - 42,5 | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 |
| EC. 500-033-5                                      |           |  |
| INDEX. 603-074-00-8                                |           |  |
| Reg. no. 01-2119456619-26-0000                     |           |  |
| <b>BARIUM SULFATE ( 58,8% - metallic element )</b> |           |  |
| CAS. 7727-43-7                                     | 32,5 - 35 | Substance with a community workplace exposure limit.                             |
| EC. 231-784-4                                      |           |  |
| INDEX. -   |           |  |
| <b>(WZ00010)</b>                                   |           |  |
| CAS. 107-15-3                                      | 19,5 - 21 | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Resp. Sens. 1 H334, Skin Sens. 1 H317     |
| EC. 203-468-6                                      |           |  |
| INDEX. -   |           |  |
| Reg. no. 01-2119480393-37-0012                     |           |  |
| <b>FERRIC OXIDE ( 70,1% - metallic element )</b>   |           |  |
| CAS. 1309-37-1                                     | 4,5 - 5   | Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335                            |
| EC. 215-168-2                                      |           |  |
| INDEX. -   |           |  |
| <b>2-METHOXY-1-METHYLETHYL ACETATE</b>             |           |  |
| CAS. 108-65-6                                      | 2 - 2,5   | Flam. Liq. 3 H226  |
| EC. 203-603-9                                      |           |  |
| INDEX. 607-195-00-7                                |           |  |
| Reg. no. 01-2119475791-29                          |           |  |

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures.

#### 4.1. Description of first aid measures.

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

## SECTION 5. Firefighting measures.

### 5.1. Extinguishing media.

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture.

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters.

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

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### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage.

### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s).

Information not available.

## SECTION 8. Exposure controls/personal protection.

### 8.1. Control parameters.

Regulatory References:

|     |                |  |
|-----|----------------|--|
| GRB | United Kingdom | EH40/2005 Workplace exposure limits              |
| IRL | Éire           | Code of Practice Chemical Agent Regulations 2011 |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81          |

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## Safety Data Sheet

EU OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;  
 TLV-ACGIH Directive 2000/39/EC.  
 ACGIH 2014

### BARIUM SULFATE

#### Threshold Limit Value.

| Type      | Country | TWA/8h |     | STEL/15min |     |
|-----------|---------|--------|-----|------------|-----|
|           |         | mg/m3  | ppm | mg/m3      | ppm |
| WEL       | GRB     | 4      |     |            |     |
| OEL       | IRL     | 2      |     |            |     |
| TLV       | ITA     | 0,5    |     |            |     |
| OEL       | EU      | 0,5    |     |            |     |
| TLV-ACGIH |         | 5      |     |            |     |

### FERRIC OXIDE

#### Threshold Limit Value.

| Type      | Country | TWA/8h |     | STEL/15min |     |
|-----------|---------|--------|-----|------------|-----|
|           |         | mg/m3  | ppm | mg/m3      | ppm |
| WEL       | GRB     | 5      |     | 10         |     |
| OEL       | IRL     | 5      |     | 10         |     |
| TLV-ACGIH |         | 5      |     |            |     |

### 2-METHOXY-1-METHYLETHYL ACETATE

#### Threshold Limit Value.

| Type | Country | TWA/8h |     | STEL/15min |     |       |
|------|---------|--------|-----|------------|-----|-------|
|      |         | mg/m3  | ppm | mg/m3      | ppm |       |
| WEL  | GRB     | 274    | 50  | 548        | 100 |       |
| OEL  | IRL     | 275    | 50  | 550        | 100 | SKIN. |
| TLV  | ITA     | 275    | 50  | 550        | 100 | SKIN. |
| OEL  | EU      | 275    | 50  | 550        | 100 | SKIN. |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

TLV of solvent mixture: 713 mg/m3.

### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

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### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties.

### 9.1. Information on basic physical and chemical properties.

|                                  |                 |
|----------------------------------|-----------------|
| Appearance                       | pasty           |
| Colour                           | Red and Grey    |
| Odour                            | characteristic  |
| Odour threshold.                 | Not available.  |
| pH.                              | Not available.  |
| Melting point / freezing point.  | Not available.  |
| Initial boiling point.           | Not available.  |
| Boiling range.                   | Not available.  |
| Flash point.                     | 23 ≤ T ≤ 60 °C. |
| Evaporation Rate                 | Not available.  |
| Flammability of solids and gases | Not available.  |
| Lower inflammability limit.      | Not available.  |
| Upper inflammability limit.      | Not available.  |
| Lower explosive limit.           | Not available.  |
| Upper explosive limit.           | Not available.  |
| Vapour pressure.                 | Not available.  |
| Vapour density                   | 0,9 - 1         |
| Relative density.                | 1,500 Kg/l      |
| Solubility                       | insoluble       |

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|  |                |
|--|----------------|
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature.             | Not available. |
| Decomposition temperature.             | Not available. |
| Viscosity                              | Tixotropica    |
| Explosive properties                   | Not available. |
| Oxidising properties                   | Not available. |

### 9.2. Other information.

|                              |                         |
|------------------------------|-------------------------|
| Solid content.               | 37,50 %                 |
| VOC (Directive 2010/75/EC) : | 2,20 % - 32,93 g/litre. |
| VOC (volatile carbon) :      | 1,23 % - 18,51 g/litre. |

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

### 10.5. Incompatible materials.

Information not available.

### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information.



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### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Inhalation of this product causes sensitization, which may then give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

This product contains epoxy resins. Producer's specifications are as follows: Because of epoxy-product properties and according to the toxicological data available for similar products, this preparation may sensitize and irritate the skin and the respiratory system. It contains epoxy components at low molecular weights, which may irritate eyes, mucosas and skin. Frequent contact with skin may cause irritation and sensitization phenomena. Sensitization reactions may also be caused by other epoxy components (cross-sensitization). Avoid contact with skin and exposure to vapours and aerosols.

BARIUM SULFATE

LD50 (Oral).> 3000 mg/kg Mouse

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral).8530 mg/kg Rat

LD50 (Dermal).> 5000 mg/kg Rat

### SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity.

Information not available.

#### 12.2. Persistence and degradability.

FERRIC OXIDE

Solubility in water. < 0,001 mg/l

Biodegradability: Information not available.

BARIUM SULFATE

Solubility in water. mg/l 0,1 - 100

Biodegradability: Information not available.

2-METHOXY-1-

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METHYLETHYL ACETATE  
Solubility in water. > 10000 mg/l

Rapidly biodegradable.

### 12.3. Bioaccumulative potential.

2-METHOXY-1-  
METHYLETHYL ACETATE  
Partition coefficient: n-  
octanol/water. 1,2

### 12.4. Mobility in soil.

Information not available.

### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects.

Information not available.

## SECTION 13. Disposal considerations.

### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport information.

### 14.1. UN number.

ADR / RID, IMDG, 1263  
IATA:

### 14.2. UN proper shipping name.

ADR / RID: PAINT or PAINT  
RELATED

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IMDG: MATERIAL  
PAINT or PAINT  
RELATED  
MATERIAL  
(Bisphenol A  
epoxy resin)

IATA: PAINT or PAINT  
RELATED  
MATERIAL

### 14.3. Transport hazard class(es).

ADR / RID: Class: 3 Label: 3



IMDG: Class: 3 Label: 3



IATA: Class: 3 Label: 3



### 14.4. Packing group.

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards.

ADR / RID: Environmentally  
Hazardous.



IMDG: Marine Pollutant.



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

### 14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 30

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (D/E)

Special Provision: 640E

IMDG: EMS: F-E, S-E

Limited  
Quantities: 5  
L

IATA: Cargo:

Maximum  
quantity: 220  
L

Packaging  
instructions:  
366  
Packaging  
instructions:  
355

Pass.:

Maximum  
quantity: 60 L

Special Instructions:

A3, A72,  
A192

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### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

## SECTION 15. Regulatory information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 6

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product Point. 3 - 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

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|                          |  |
|--------------------------|--|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3   |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3               |
| <b>Resp. Sens. 1</b>     | Respiratory sensitization, category 1                                      |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1   |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2         |
| <b>H226</b>              | Flammable liquid and vapour.   |
| <b>H319</b>              | Causes serious eye irritation.   |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H335</b>              | May cause respiratory irritation.  |
| <b>H334</b>              | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>H317</b>              | May cause an allergic skin reaction.                                       |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                           |
| <b>EUH205</b>            | Contains epoxy constituents. May produce an allergic reaction.             |

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

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## Safety Data Sheet

4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
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  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

This Safety Data Sheet is prepared in accordance with according to Regulation (EC) No. 1272/2008 [CLP/GHS].

#### Notice to whom it may concern:

Your attention and information in this MSDS are based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this MSDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.