

## SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 2.1  
Revision Date: 07.03.2013  
Superseded date: 31.05.2011

## DOW CORNING(R) 3362 HV INSULATING GLASS CATALYST BLACK

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

|                                           |                                                                                                       |                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>1.1 Product name</b>                   | : DOW CORNING(R) 3362 HV INSULATING GLASS CATALYST BLACK                                              |                                                                                                         |
| <b>1.2 Identified uses</b>                | : Vulcanising agents                                                                                  |                                                                                                         |
| <b>Uses advised against</b>               | : None known.                                                                                         |                                                                                                         |
| <b>1.3 Company</b>                        | : Dow Corning Europe S.A.<br>rue Jules Bordet - Parc Industriel - Zone C<br>B-7180 Seneffe<br>Belgium |                                                                                                         |
| <b>E-mail address (Safety Data Sheet)</b> | : sdseu@dowcorning.com                                                                                |                                                                                                         |
| <b>Customer Service</b>                   | : English<br>Deutsch<br>Français<br>Italiano<br>Español                                               | Tel: +49 611237507<br>Tel: +49 611237500<br>Tel: +32 64511149<br>Tel: +32 64511170<br>Tel: +32 64511163 |
|                                           |                                                                                                       | Fax: +32 64888683                                                                                       |
| <b>1.4 Emergency Phone Number</b>         | : Dow Corning (Barry U.K. 24h)<br>Dow Corning (Wiesbaden 24h)<br>Dow Corning (Seneffe 24h)            | Tel: +44 1446732350<br>Tel: +49 61122158<br>Tel: +32 64 888240                                          |

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

## According to EU Directives 67/548/EEC or 1999/45/EC:

R10 Flammable.  
R36 Irritating to eyes.  
R43 May cause sensitization by skin contact.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 2.2 Label elements

Labelling according to EEC Directive

|                 |                                                |
|-----------------|------------------------------------------------|
| <b>Contains</b> | : Trimethoxy(methyl)silane                     |
|                 | : N-(3-(Trimethoxysilyl)propyl)ethylenediamine |
|                 | : 1,6-Bis(trimethoxysilyl)hexane               |
| <b>Symbols</b>  | : Xn Harmful.                                  |

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**R-phrases** : R10 Flammable.  
R36 Irritating to eyes.  
R43 May cause sensitization by skin contact.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases** : S23(V) Do not breathe vapour.  
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 Wear suitable gloves.  
S51 Use only in well-ventilated areas.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**2.3 Other hazards**

Vapours may form explosive mixtures with air.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixture of Methyl Siloxane and Organic Compound**According to EU Directives 67/548/EEC or 1999/45/EC:**

| Name                                         | CAS-No.     | EINECS/<br>ELINCS<br>No. | REACH<br>Registration<br>Number | Conc.<br>(% w/w) | Classification                                                                     |
|----------------------------------------------|-------------|--------------------------|---------------------------------|------------------|------------------------------------------------------------------------------------|
| Carbon black                                 | 1333-86-4   | 215-609-9                | -                               | 15.0             | Substance with a Community workplace exposure limit                                |
| Trimethoxy(methyl)silane                     | 1185-55-3   | 214-685-0                | 01-21195174<br>36-40            | 12.0             | F<br>R43<br>R11                                                                    |
| Amino functional alkoxy silanes              | 474530-85-3 | Exempt or not available  | -                               | 12.0             | Xi<br>R36                                                                          |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3   | 217-164-6                | -                               | 4.9              | Xn<br>Xi<br>R20<br>R41<br>R43<br>R51/53                                            |
| 1,6-Bis(trimethoxysilyl)hexane               | 87135-01-1  | Exempt or not available  | -                               | 4.0              | T<br>R48/25                                                                        |
| Methylated silica                            | 68611-44-9  | 271-893-4                | -                               | 1.8              | Substance with a Community workplace exposure limit                                |
| Methanol                                     | 67-56-1     | 200-659-6                | 01-21194333<br>07-44            | 0.85             | F<br>T<br>R11<br>R23/24/25<br>R39/23/24/25                                         |
| Dimethylbis[(1-oxoneodacyl)oxy]stannane      | 68928-76-7  | 273-028-6                | -                               | 0.1              | Xn<br>T<br>Xn, Toxic for reproduction - category 3.<br>R22<br>R48/25<br>R63<br>R53 |

**According to Regulation (EC) No. 1272/2008:**

| Name                            | CAS-No.     | EINECS/<br>ELINCS<br>No. | REACH<br>Registration<br>Number | Conc.<br>(% w/w) | Classification                                                               |
|---------------------------------|-------------|--------------------------|---------------------------------|------------------|------------------------------------------------------------------------------|
| Carbon black                    | 1333-86-4   | 215-609-9                | -                               | 15.0             | Substance with a Community workplace exposure limit                          |
| Trimethoxy(methyl)silane        | 1185-55-3   | 214-685-0                | 01-21195174<br>36-40            | 12.0             | Flammable liquid: Category 2 - H225<br>Skin sensitization: Category 1 - H317 |
| Amino functional alkoxy silanes | 474530-85-3 | Exempt or not available  | -                               | 12.0             | Serious eye damage/eye irritation: Category 2 - H319                         |

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|                                              |            |                         |                      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------|------------|-------------------------|----------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3  | 217-164-6               | -                    | 4.9  | Acute toxicity (Inhalation - dust and mist): Category 4 - H332<br>Serious eye damage/eye irritation: Category 1 - H318<br>Skin sensitization: Category 1 - H317<br>Chronic aquatic hazard: Category 2 - H411                                                                                                                                                                                                                                                                                                                                                             |
| 1,6-Bis(trimethoxysilyl)hexane               | 87135-01-1 | Exempt or not available | -                    | 4.0  | Specific target organ toxicity - repeated exposure (Oral): Category 1 (bladder) - H372                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Methylated silica                            | 68611-44-9 | 271-893-4               | -                    | 1.8  | Substance with a Community workplace exposure limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Methanol                                     | 67-56-1    | 200-659-6               | 01-21194333<br>07-44 | 0.85 | Flammable liquid: Category 2 - H225<br>Acute toxicity (Oral): Category 3 - H301<br>Acute toxicity (Dermal): Category 3 - H311<br>Acute toxicity (Inhalation - vapour): Category 3 - H331<br>Specific target organ toxicity - single exposure (Dermal): Category 1 (eye - retina, central nervous system) - H370<br>Specific target organ toxicity - single exposure (Inhalation - vapour): Category 1 (eye - retina, central nervous system) - H370<br>Specific target organ toxicity - single exposure (Oral): Category 1 (eye - retina, central nervous system) - H370 |
| Dimethylbis[(1-oxoneodacyl)oxy]stannane      | 68928-76-7 | 273-028-6               | -                    | 0.1  | Acute toxicity (Oral): Category 4 - H302<br>Reproductive toxicity (Oral): Category 2 - H361d<br>Specific target organ toxicity - repeated exposure (Oral): Category 1 (central nervous system, thymus gland, kidney) - H372<br>Chronic aquatic hazard: Category 4 - H413                                                                                                                                                                                                                                                                                                 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

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## 4. FIRST AID MEASURES

## 4.1 Description of First Aid Measures:

**On contact with eyes** : Immediately flush with water. Obtain medical attention immediately.**On skin contact** : Flush with water. Wipe off. Obtain medical attention.**If inhaled** : Remove to fresh air.**On ingestion** : Obtain medical attention immediately.**4.2 Most important symptoms/effects, acute and delayed** : Irritating to eyes.  
May cause sensitization by skin contact.  
Harmful: danger of serious damage to health by prolonged exposure if swallowed.

## 5. FIRE-FIGHTING MEASURES

**5.1 Suitable extinguishing media** : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.**Unsuitable extinguishing media** : None known.**5.2 Hazards during fire fighting** : Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed.  
Vapours may form explosive mixtures with air.**Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Nitrogen products.**5.3 Special protective equipment/procedures** : A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** : A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.**6.2 Environmental precautions** : Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.**6.3 Methods and materials for containment and cleaning up** : Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a

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container with a lid. The spilled product produces an extremely slippery surface.

## 7. HANDLING AND STORAGE

- 7.1 Advice on safe handling** : General ventilation is required. Local ventilation is recommended. Do not breathe vapour. Do not breathe spray or mist. Avoid skin and eye contact. Do not ingest. Do not empty into drains.
- 7.2 Advice on storage** : Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed.  
Vapours may form explosive mixtures with air.  
Storage temperature: minimum 5 °C, maximum 25 °C
- 7.3 Specific uses** : Refer to technical data sheet available on request.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

| Name                                         | CAS-No.     | Exposure Limits                                                                                                                                                                                              |
|----------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carbon black                                 | 1333-86-4   | 3.5 mg/m <sup>3</sup> TWA<br>7 mg/m <sup>3</sup> STEL                                                                                                                                                        |
| Trimethoxy(methyl)silane                     | 1185-55-3   | 50 ppm (8h TWA) - Dow Corning recommendation.                                                                                                                                                                |
| Amino functional alkoxyasilanes              | 474530-85-3 | 1,000 ppm TWA as ethanol<br>200 ppm TWA as methanol<br>250 ppm STEL as methanol<br>1,920 mg/m <sup>3</sup> TWA as ethanol<br>266 mg/m <sup>3</sup> TWA as methanol<br>333 mg/m <sup>3</sup> STEL as methanol |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine | 1760-24-3   | 250 ppm STEL as methanol<br>200 ppm TWA as methanol<br>333 mg/m <sup>3</sup> STEL as methanol<br>266 mg/m <sup>3</sup> TWA as methanol                                                                       |
| 1,6-Bis(trimethoxysilyl)hexane               | 87135-01-1  | 200 ppm TWA as methanol<br>250 ppm STEL as methanol<br>266 mg/m <sup>3</sup> TWA as methanol<br>333 mg/m <sup>3</sup> STEL as methanol                                                                       |
| Methylated silica                            | 68611-44-9  | 4 mg/m <sup>3</sup> TWA Respirable dust<br>10 mg/m <sup>3</sup> TWA Inhalable dust                                                                                                                           |
| Methanol                                     | 67-56-1     | 200 ppm TWA<br>250 ppm STEL                                                                                                                                                                                  |

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266 mg/m<sup>3</sup> TWA333 mg/m<sup>3</sup> STELDimethylbis[(1-oxoneodecyl)ox  
y]stannane 68928-76-70.1 mg/m<sup>3</sup> TWA as Sn0.2 mg/m<sup>3</sup> STEL as Sn**8.2 Exposure controls****Engineering Controls** : Ventilation : Refer to Section 7.1**Personal protection equipment**

**Respiratory protection** : Contact with water or humid air will form methanol. Please take into account any occupational exposure limits for methanol which are applicable in your country.

-

Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.

A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.

Depending on the working conditions, wear a respiratory mask with filter(s) AXP or use a self-contained respirator.

The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

**Hand protection** : Chemical protective gloves or gauntlets should be worn and removed correctly to avoid skin contamination: Silver shield(TM). 4H(TM). Regarding glove's breakthrough time, contact your chemical protective glove supplier.

**Eye/face protection** : Face shield or safety goggles.

**Skin protection** : Wear impervious overalls in circumstances where significant skin contact can occur.

**Hygiene measures** : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately.

**Additional information** : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

**Environmental exposure controls** : Refer to section 6 and 12.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** : Viscous Liquid

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|                             |   |                                                     |
|-----------------------------|---|-----------------------------------------------------|
| <b>Colour</b>               | : | Black                                               |
| <b>Odour</b>                | : | Alcoholic                                           |
| <b>Boiling point/range</b>  | : | > 35 °C                                             |
| <b>Flash point</b>          | : | 27 °C (Closed Cup)                                  |
| <b>Explosive properties</b> | : | No<br>Vapours may form explosive mixtures with air. |
| <b>Specific Gravity</b>     | : | 1.0                                                 |
| <b>Viscosity</b>            | : | 15000 mm <sup>2</sup> /s at 25°C.                   |
| <b>Oxidizing properties</b> | : | No                                                  |

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

**10. STABILITY AND REACTIVITY**

|                                                |   |                                                                                                                                                                                                                                        |
|------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | : | This product releases methanol.                                                                                                                                                                                                        |
| <b>10.2 Stability</b>                          | : | Stable under normal usage conditions.                                                                                                                                                                                                  |
| <b>10.3 Possibility of hazardous reactions</b> | : | None known.                                                                                                                                                                                                                            |
| <b>10.4 Conditions to avoid</b>                | : | Eliminate all possible sources of ignition.                                                                                                                                                                                            |
| <b>10.5 Materials to avoid</b>                 | : | Can react with strong oxidising agents.                                                                                                                                                                                                |
| <b>10.6 Hazardous decomposition products</b>   | : | Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Nitrogen products. |

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

|                             |   |                                                                                                                                                                           |
|-----------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>On contact with eyes</b> | : | Causes serious eye irritation.                                                                                                                                            |
| <b>On skin contact</b>      | : | Slightly irritating. Large amount in contact with significant skin surface areas may cause systemic adverse effects.                                                      |
| <b>If inhaled</b>           | : | May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness. Inhalation of large amount may cause systemic adverse effect. |
| <b>On ingestion</b>         | : | Forms methanol. Swallowing large amounts may cause systemic adverse effects and blindness. Swallowing large amounts may cause systemic adverse effects.                   |



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**On skin contact** : Can irritate on prolonged or repeated contact. Repeated contact can cause sensitisation and allergic dermatitis. Prolonged or repeated dermal contact may cause systemic adverse effect.

**If inhaled** : Prolonged or repeated inhalation may cause systemic adverse effects.

**On ingestion** : Repeated swallowing may cause damage to specific organ(s) - see section 3. Repeated swallowing may cause systemic adverse effects.

**Toxicokinetics, metabolism and distribution** : Dangerous amounts can be absorbed through the skin.

**Other Health Hazard Information** : This product contains (a) powder(s) hazardous by inhalation. This is not relevant to the current physical form of the product, which is not in a respirable form.

<sup>1</sup> Based on product test data.

<sup>2</sup> Based on test data from similar products.

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity effects**

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

This product hydrolyses in water or moist air, releasing methanol and organosilicons. Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.

**12.3 Bioaccumulation**

No bioaccumulation potential.

**12.4 Release to waters / Mobility in soil****Fate and effects in waste water treatment plants:**

Removed > 90% by binding onto sewage sludge. May cause adverse effects on bacteria. The siloxanes in this product do not contribute to the BOD.

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**Product and packaging disposal** : This material must be disposed of as hazardous waste. Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**14. TRANSPORT INFORMATION****Road / Rail (ADR/RID)**

**UN No.** : UN 1993  
**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Methoxysilane / Methanol)  
**Class** : 3  
**Packing group** : III  
**Labels** : 3

**Sea transport (IMDG)**

**UN No.** : UN 1993  
**Proper Shipping Name** : FLAMMABLE LIQUID, N.O.S.(Methoxysilane / Methanol)  
**Class** : 3  
**Packing group** : III  
**Emergency Schedule (EmS)** : F-E  
S-E  
**Labels** : flammable liquid

**Air transport (IATA)**

**UN No.** : UN 1993  
**Proper Shipping Name** : Flammable liquid, n.o.s.(Methoxysilane / Methanol)  
**Class** : 3  
**Packing group** : III  
**Labels** : Flammable Liquid

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|                  |   |                                                                                                                                 |
|------------------|---|---------------------------------------------------------------------------------------------------------------------------------|
| <b>TSCA</b>      | : | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. |
| <b>IECSC</b>     | : | All ingredients listed or exempt.                                                                                               |
| <b>ENCs/ISHL</b> | : | Consult your local Dow Corning office.                                                                                          |
| <b>KECL</b>      | : | All ingredients listed, exempt or notified.                                                                                     |
| <b>DSL</b>       | : | Consult your local Dow Corning office.                                                                                          |
| <b>EINECS</b>    | : | Not determined.                                                                                                                 |

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## 16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information

**R11** Highly flammable., **R20** Harmful by inhalation., **R22** Harmful if swallowed., **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed., **R36** Irritating to eyes., **R37** Irritating to respiratory system., **R39/23/24/25** Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed., **R41** Risk of serious damage to eyes., **R43** May cause sensitization by skin contact., **R48/25** Toxic: danger of serious damage to health by prolonged exposure if swallowed., **R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., **R53** May cause long-term adverse effects in the aquatic environment., **R63** Possible risk of harm to the unborn child.

**H225** Highly flammable liquid and vapour., **H301** Toxic if swallowed., **H302** Harmful if swallowed., **H311** Toxic in contact with skin., **H317** May cause an allergic skin reaction., **H318** Causes serious eye damage., **H319** Causes serious eye irritation., **H331** Toxic if inhaled., **H332** Harmful if inhaled., **H335** May cause respiratory irritation., **H361d** Suspected of damaging the unborn child., **H411** Toxic to aquatic life with long lasting effects., **H413** May cause long lasting harmful effects to aquatic life.