SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

SEALANT 18X-SF

of the mixture

Registration number

Synonyms None. **Product code** 800-0039

Issue date 27-February-2013

Version number 01

Revision date 27-February-2013 Supersedes date 12-December-2011

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

Identified uses Industrial Leak Sealant

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name Team Industrial Services, Inc.

Postbus 37 4380 AA Vlissingen 3237 **Address**

The Netherlands

Telephone +31 (0) 118 48 58 00

Fax +31 (0) 118 48 58 86

Not available. e-mail **Contact person** Not available. 1.4. Emergency telephone +1 703-527-3887

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Reproductive toxicity Category 2 H361d - Suspected of damaging

the unborn child.

Environmental hazards

Environmental hazards

Hazardous to the aquatic environment, Category 3 H412 - Harmful to aquatic life with

long lasting effects. long-term aquatic hazard

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Occupational exposure to the substance or mixture may cause adverse health effects.

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

Specific hazards May cause skin and eye irritation. Prolonged or repeated contact may dry skin and cause

dermatitis. Possible risk of harm to the unborn child.

Main symptoms Irritation of eyes and mucous membranes. Symptoms include itching, burning, redness and

tearing.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Toluene Contains:

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Version No.: 01

Hazard pictograms



Signal word Warning

Hazard statements H361d - Suspected of damaging the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention P201 - Obtain special instructions before use.

P281 - Use personal protective equipment as required.

P273 - Avoid release to the environment.

P308 + P313 - IF exposed or concerned: Get medical advice/attention. Response

P405 - Store locked up. Storage

Disposal Not available. Supplemental label information Not applicable.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|------------------|------|---------------------------------|-------------------------|-------------------------------|-------------------|---------|
| Aluminium oxide | | 25-50 | 1344-28-1 215-691-6 | - | - | |
| Classification: | DSD: | - | | | | |
| | CLP: | - | | | | |
| Polymer | | 25-50 | 25034-71-3 | - | - | |
| Classification: | DSD: | - | - | | | |
| | CLP: | - | | | | |
| Graphite | | 10-25 | 7782-42-5 231-955-3 | - | - | |
| Classification: | DSD: | - | | | | |
| | CLP: | - | | | | |
| Carbon fiber | | <5 | 7440-44-0 231-153-3 | - | - | |
| Classification: | DSD: | - | | | | |
| | CLP: | - | | | | |
| Dicumyl peroxide | | <5 | 80-43-3 201-279-3 | - | 617-006-00-X | |
| Classification: | DSD: | O;R7, Xi;R36/3 | 8, N;R51/53 | | | |
| | CLP: | Org. Perox. F; | H242, Skin Irrit. 2;H31 | 5, Eye Irrit. 2;H319, Aquatic | Chronic 2;H411 | |
| Toluene | | <5 | 108-88-3 203-625-9 | - | 601-021-00-3 | # |
| Classification: | DSD: | F;R11, Repr. C | at. 3;R63, Xn;R65-48 | 20, Xi;R38, R67 | | |
| | CLP: | Flam. Liq. 2;H2 STOT RE 2;H3 | | , Skin Irrit. 2;H315, STOT SE | E 3;H336, Repr. 2 | ;H361d, |

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

Composition comments All concentrations are in percent by weight. The full text for all R- and H-phrases is displayed in

section 16.

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^{#:} This substance has workplace exposure limit(s).

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Get medical attention if any discomfort occurs.

Skin contact Remove contaminated clothing and shoes. Flush thoroughly with water for at least 15 minutes. If

irritation occurs, get medical assistance.

Eye contact Flush thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or

persists.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not

unconscious. Only induce vomiting at the instruction of medical personnel. If vomiting occurs. keep head low so that stomach content doesn't get into the lungs. Get medical attention

immediately.

4.2. Most important symptoms and effects, both acute and

Irritation of eyes and mucous membranes. Symptoms include itching, burning, redness and tearing.

delayed 4.3. Indication of any immediate medical attention

and special treatment needed

Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours

after exposure.

SECTION 5: Firefighting measures

General fire hazards Combustible liquid.

5.1. Extinguishing media

media

Unsuitable extinguishing No restrictions known.

media

5.2. Special hazards arising

from the substance or mixture

Suitable extinguishing

Solvent vapours may form explosive mixtures with air. By heating and fire, corrosive

vapours/gases may be formed. Carbon oxides. Silicon oxides.

Extinguish with foam, carbon dioxide, dry powder or water fog.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in

the workplace.

Special fire fighting

procedures

In the event of fire, cool tanks with water spray. Move containers from fire area if you can do it

without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ventilate closed spaces before entering. Avoid inhalation of vapours and contact with skin and eyes. Wear appropriate protective equipment and clothing during clean-up. See Section 8 for personal protective equipment.

For emergency responders

Use personal protection as recommended in section 8 of the SDS.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After removal flush contaminated area thoroughly with water. This material and its container must be disposed of as hazardous waste.

6.4. Reference to other

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pregnant or breastfeeding women must not handle this product. Avoid inhalation of vapours and contact with skin and eyes. The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking tools and explosion-proof equipment. Use only with adequate ventilation. Wear approved safety goggles. Wear protective gloves and appropriate clothing to prevent skin contact. Avoid generation and spreading of dust. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s) Industrial Leak Sealant

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

| Components | Туре | Value | Form |
|------------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | MAK | 5 mg/m3 | Respirable fume. |
| | | 5 mg/m3 | Respirable fraction. |
| | | 10 mg/m3 | Inhalable fraction. |
| | STEL | 20 mg/m3 | Inhalable fraction. |
| | | 10 mg/m3 | Respirable fume. |
| | | 10 mg/m3 | Respirable fraction. |
| Carbon fiber (CAS 7440-44-0) | MAK | 5 mg/m3 | Respirable dust. |
| • | STEL | 10 mg/m3 | Respirable dust. |
| Graphite (CAS 7782-42-5) | MAK | 5 mg/m3 | Respirable dust. |
| | STEL | 10 mg/m3 | Respirable dust. |
| Toluene (CAS 108-88-3) | MAK | 190 mg/m3 | · |
| • | | 50 ppm | |
| | STEL | 380 mg/m3 | |
| | | 100 ppm | |

Belgium. Exposure Limit Values.

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 1 mg/m3 | Respirable fraction. |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Respirable fraction. |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | • |
| | | 100 ppm | |
| | TWA | 77 mg/m3 | |
| | | 20 ppm | |

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 10 mg/m3 | Dust. |
| · | | 1,5 mg/m3 | Respirable fraction. |
| Carbon fiber (CAS 7440-44-0) | TWA | 5 mg/m3 | Inhalable fraction. |
| Graphite (CAS 7782-42-5) | TWA | 5 mg/m3 | Inhalable fraction. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | TWA | 192 mg/m3 | |

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

| Components | Туре | Value | |
|---------------------------------|------|----------------------|--|
| Carbon fiber (CAS 7440-44-0) | TWA | 10 mg/m3 | |
| Graphite (CAS 7782-42-5) | TWA | 10 mg/m3 | |
| Toluene (CAS 108-88-3) | TWA | 375 mg/m3 100 ppm | |

Czech Republic. OELs. Government Decree 361

| Components | Туре | Value | Form |
|------------------------------------|---------|-----------|------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 0,1 mg/m3 | Respirable dust. |
| Carbon fiber (CAS 7440-44-0) | TWA | 10 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |
| Graphite (CAS 7782-42-5) | TWA | 10 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |
| Toluene (CAS 108-88-3) | Ceiling | 500 mg/m3 | |
| | TWA | 200 mg/m3 | |

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Denmark. Exposure Limit Values

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|-------------|
| Aluminium oxide (CAS 1344-28-1) | TLV | 5 mg/m3 | Total |
| | | 2 mg/m3 | Respirable. |
| Carbon fiber (CAS 7440-44-0) | TLV | 2,5 mg/m3 | Respirable. |
| Graphite (CAS 7782-42-5) | TLV | 2,5 mg/m3 | Respirable. |
| Toluene (CAS 108-88-3) | TLV | 94 mg/m3 | |
| | | 25 ppm | |

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 4 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |
| Carbon fiber (CAS 7440-44-0) | TWA | 3 mg/m3 | Dust. |
| Graphite (CAS 7782-42-5) | TWA | 5 mg/m3 | Dust. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Finland. Workplace Exposure Limits

| Components | Туре | Value | |
|---------------------------------|------|-----------|--|
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | |
| Toluene (CAS 108-88-3) | STEL | 380 mg/m3 | |
| | | 100 ppm | |
| | TWA | 81 mg/m3 | |
| | | 25 ppm | |

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

| Components | Туре | Value | Form |
|------------------------------------|------|------------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | VME | 10 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | VME | 2 mg/m3 | Respirable fraction. |
| Graphite (CAS 7782-42-5) | VME | 2 mg/m3 | Respirable fraction. |
| Toluene (CAS 108-88-3) | VLE | 384 mg/m3 | |
| | | 100 ppm | |
| | VME | 76,8 mg/m3 | |
| | | 20 ppm | |

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 4 mg/m3 | Inhalable dust. |
| , | | 1,5 mg/m3 | Respirable dust. |
| Carbon fiber (CAS 7440-44-0) | TWA | 4 mg/m3 | Inhalable fraction. |
| , | | 1,5 mg/m3 | Respirable fraction. |
| Graphite (CAS 7782-42-5) | TWA | 4 mg/m3 | Inhalable fraction. |
| | | 1,5 mg/m3 | Respirable fraction. |
| Toluene (CAS 108-88-3) | TWA | 190 mg/m3 | |
| | | 50 ppm | |

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

| Components | Туре | Value | Form |
|---------------------------------|------|---------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | AGW | 3 mg/m3 | Respirable fraction. |

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

| Components | Туре | Value | Form |
|---|--|---|--|
| | | 10 mg/m3 | Inhalable fraction. |
| Carbon fiber (CAS | AGW | 3 mg/m3 | Respirable fraction. |
| 7440-44-0) | | | |
| | | 10 mg/m3 | Inhalable fraction. |
| Graphite (CAS 7782-42-5) | AGW | 3 mg/m3 | Respirable fraction. |
| | | 10 mg/m3 | Inhalable fraction. |
| Toluene (CAS 108-88-3) | AGW | 190 mg/m3 | |
| | | 50 ppm | |
| Greece. OELs (Decree No. 90/1999 | , as amended) | | |
| Components | Туре | Value | Form |
| Aluminium oxide (CAS | TWA | 5 mg/m3 | Inhalable |
| 1344-28-1) | | 40 | Desminable |
| 0 1 (1 (0.4.0) | T)4/4 | 10 mg/m3 | Respirable. |
| Carbon fiber (CAS 7440-44-0) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Inhalable |
| Graphite (CAS 7782-42-5) | TWA | 5 mg/m3 | Respirable. |
| Jiapinio (0/10 / / 02-72-0) | 1 * * * * * * * * * * * * * * * * * * * | 10 mg/m3 | Inhalable |
| Гоluene (CAS 108-88-3) | STEL | 560 mg/m3 | แแฉเฉมเธ |
| Toldene (OAS 100-00-3) | SILL | 150 ppm | |
| | TWA | 375 mg/m3 | |
| | IVVA | 9 | |
| Jungary OELa Jaint Daares O | homical Cafety of Manhalana | 100 ppm | |
| Hungary. OELs. Joint Decree on C | - | | Easter . |
| Components | Туре | Value | Form |
| Aluminium oxide (CAS 1344-28-1) | TWA | 6 mg/m3 | Respirable. |
| Toluene (CAS 108-88-3) | STEL | 380 mg/m3 | |
| | TWA | 190 mg/m3 | |
| celand. OELs. Regulation 154/199 | 9 on occupational exposure li | mits | |
| Components | Туре | Value | Form |
| Aluminium oxide (CAS | TWA | 10 mg/m3 | |
| 1344-28-1) | | 3. 3. | |
| Carbon fiber (CAS | TWA | 5 mg/m3 | Total dust. |
| 7440-44-0) ` | | _ | |
| | | 2,5 mg/m3 | Respirable dust. |
| | | | • |
| Graphite (CAS 7782-42-5) | TWA | 5 mg/m3 | Total dust. |
| , | | 2,5 mg/m3 | • |
| , | TWA STEL | 2,5 mg/m3 188 mg/m3 | Total dust. |
| , | | 2,5 mg/m3 | Total dust. |
| , | | 2,5 mg/m3 188 mg/m3 | Total dust. |
| , | STEL | 2,5 mg/m3 188 mg/m3 50 ppm | Total dust. |
| Toluene (CAS 108-88-3) | STEL | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 | Total dust. |
| Graphite (CAS 7782-42-5) Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components | STEL | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 | Total dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components Aluminium oxide (CAS | STEL TWA mits | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm | Total dust. Respirable dust. |
| reland. Occupational Exposure Li Components Aluminium oxide (CAS | STEL TWA mits Type | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 | Total dust. Respirable dust. Form Respirable dust. |
| reland. Occupational Exposure Li Components Aluminium oxide (CAS | STEL TWA mits Type TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 | Total dust. Respirable dust. Form Respirable dust. Total inhalable dust |
| reland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS | STEL TWA mits Type | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 | Total dust. Respirable dust. Form Respirable dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS | STEL TWA mits Type TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 | Form Respirable dust. Total inhalable dust. Respirable dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) | STEL TWA mits Type TWA TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) | STEL TWA mits Type TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 4 mg/m3 | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |
| reland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) Graphite (CAS 7782-42-5) | STEL TWA mits Type TWA TWA TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 10 mg/m3 | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |
| reland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) Graphite (CAS 7782-42-5) | STEL TWA mits Type TWA TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 384 mg/m3 | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) Graphite (CAS 7782-42-5) | STEL TWA mits Type TWA TWA TWA STEL | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 384 mg/m3 100 ppm | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |
| Toluene (CAS 108-88-3) Ireland. Occupational Exposure Li | STEL TWA mits Type TWA TWA TWA | 2,5 mg/m3 188 mg/m3 50 ppm 94 mg/m3 25 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 384 mg/m3 | Form Respirable dust. Total inhalable dust. Total inhalable dust. Total inhalable dust. |

Italy. OELs

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 1 mg/m3 | Respirable fraction. |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Respirable fraction. |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| Toluene (CAS 108-88-3) | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|------------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 6 mg/m3 | Decomposition aerosol. |
| | | 4 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Dust. |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Dust. |
| Toluene (CAS 108-88-3) | STEL | 150 mg/m3 | |
| | | 40 ppm | |
| | TWA | 50 mg/m3 | |
| | | 14 ppm | |

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 5 mg/m3 | Inhalable fraction. |
| , | | 2 mg/m3 | Respirable fraction. |
| Carbon fiber (CAS 7440-44-0) | TWA | 3 mg/m3 | Dust. |
| Graphite (CAS 7782-42-5) | TWA | 3 mg/m3 | Dust. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

| Components | Туре | Value | |
|------------------------|------|-----------|--|
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

| Туре | Value |
|------|-----------|
| STEL | 384 mg/m3 |
| | 100 ppm |
| TWA | 192 mg/m3 |
| | 50 ppm |
| | STEL |

Netherlands. OELs (binding)

| Components | Туре | Value | |
|------------------------|------|-----------|--|
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | TWA | 150 mg/m3 | |

Norway. Administrative Norms for Contaminants in the Workplace

| Components | Туре | Value | Form |
|---------------------------------|------|----------|------------------|
| Aluminium oxide (CAS 1344-28-1) | TLV | 10 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | TLV | 2 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |
| Graphite (CAS 7782-42-5) | TLV | 2 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total dust. |

| Components | Туре | Value | Form |
|------------------------|------|----------|------|
| Toluene (CAS 108-88-3) | TLV | 94 mg/m3 | |
| | | 25 ppm | |

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|------------------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 2,5 mg/m3 | Fume, total dust. |
| , | | 1,2 mg/m3 | Respirable dust and/or fume. |
| Carbon fiber (CAS 7440-44-0) | TWA | 4 mg/m3 | Total dust. |
| , | | 1 mg/m3 | Respirable dust. |
| Graphite (CAS 7782-42-5) | TWA | 4 mg/m3 | Total dust. |
| | | 1 mg/m3 | Respirable dust. |
| Toluene (CAS 108-88-3) | STEL | 200 mg/m3 | • |
| , | TWA | 100 mg/m3 | |

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

| Components | Туре | Value | |
|------------------------|------|-----------|--|
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

| Components | Туре | Value | Form |
|------------------------------------|------|----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 10 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Respirable fraction. |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|---------|
| Aluminium oxide (CAS 1344-28-1) | STEL | 5 mg/m3 | Aerosol |
| , | | 1,2 ppm | Aerosol |
| | TWA | 2 mg/m3 | Aerosol |
| | | 0,5 ppm | Aerosol |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

| Components | Туре | Value | Form |
|---------------------------------|------|-----------|----------------------|
| Aluminium oxide (CAS 1344-28-1) | TWA | 4 mg/m3 | Inhalable fraction. |
| • | | 1,5 mg/m3 | Respirable fraction. |
| | | 0,1 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Respirable fraction. |
| , | | 10 mg/m3 | Total |
| Graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| | | 10 mg/m3 | Total |
| Toluene (CAS 108-88-3) | TWA | 192 mg/m3 | |
| | | 50 ppm | |

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Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

| Components | Туре | Value | |
|---|------------------------|---|---|
| Toluene (CAS 108-88-3) | TWA | 192 mg/m3 | |
| Chain | | 50 ppm | |
| Spain | Tuno | W.L. | Form |
| Components | Type | Value | |
| Graphite (CAS 7782-42-5) Spain. Occupational Exposure Lim | TWA (VLA-ED) | 2 mg/m3 | Dust. |
| Spain. Occupational Exposure Lim | its | | |
| Components | Туре | Value | Form |
| Aluminium oxide (CAS 1344-28-1) | TWA | 10 mg/m3 | |
| Carbon fiber (CAS 7440-44-0) | TWA | 2 mg/m3 | Dust. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| Sweden. Occupational Exposure L | imit Values | 50 ppm | |
| Sweden. Occupational Exposure L Components | | Value | Form |
| | Type | Value | |
| Aluminium oxide (CAS 1344-28-1) | TWA | 5 mg/m3 | Total dust. |
| | | 2 mg/m3 | Respirable dust. |
| Carbon fiber (CAS | TWA | 0,2 fibers/mL | - |
| 7440-44-0) | | | T |
| 0 1 1 (040 7700 40 5) | T) (/ A | 5 mg/m3 | Total dust. |
| Graphite (CAS 7782-42-5) | TWA | 0,2 fibers/mL 5 mg/m3 | Total dust. |
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | Total dust. |
| Tolderie (OAO 100-00-3) | STEE | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | , | 50 ppm | |
| Switzerland. SUVA Grenzwerte am | Arbeitsplatz | | |
| Components | Туре | Value | Form |
| Aluminium oxide (CAS | STEL | 24 mg/m3 | Fume and respirable |
| 1344-28-1) | TWA | 2 malm2 | dust. |
| | IVVA | 3 mg/m3 3 mg/m3 | Respirable dust. Fume and respirable |
| | | 3 mg/ms | dust. |
| Carbon fiber (CAS 7440-44-0) | TWA | 5 mg/m3 | Inhalable dust. |
| , | | 2,5 mg/m3 | Respirable dust. |
| Graphite (CAS 7782-42-5) | TWA | 5 mg/m3 | Inhalable dust. |
| | | 2,5 mg/m3 | Respirable dust. |
| Toluene (CAS 108-88-3) | STEL | 760 mg/m3 | |
| (| | 200 ppm | |
| | T\\/ \ | | |
| | TWA | 190 mg/m3 | |
| | | | |
| UK. EH40 Workplace Exposure Lim | nits (WELs) | 190 mg/m3 50 ppm | Form |
| UK. EH40 Workplace Exposure Lim Components | nits (WELs) Type | 190 mg/m3 50 ppm Value | |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS | nits (WELs) | 190 mg/m3 50 ppm Value 4 mg/m3 | Respirable dust. |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS 1344-28-1) | nits (WELs) Type TWA | 190 mg/m3 50 ppm Value 4 mg/m3 10 mg/m3 | Respirable dust. |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS | nits (WELs) Type | 190 mg/m3 50 ppm Value 4 mg/m3 | Respirable dust. |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS | nits (WELs) Type TWA | 190 mg/m3 50 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 | Respirable dust. Inhalable dust. Respirable dust. |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) | Type TWA TWA | 190 mg/m3 50 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 | Respirable dust. |
| UK. EH40 Workplace Exposure Lim Components Aluminium oxide (CAS 1344-28-1) Carbon fiber (CAS 7440-44-0) | nits (WELs) Type TWA | 190 mg/m3 50 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 384 mg/m3 | Respirable dust. Inhalable dust. Respirable dust. |
| | Type TWA TWA | 190 mg/m3 50 ppm Value 4 mg/m3 10 mg/m3 4 mg/m3 10 mg/m3 | Respirable dust. Inhalable dust. Respirable dust. |

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United Kingdom

| Components | Туре | Value | Form |
|--------------------------|------|----------|------------------|
| Graphite (CAS 7782-42-5) | TWA | 4 mg/m3 | Respirable dust. |
| | | 10 ma/m3 | Inhalable dust. |

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

| Components | Туре | Value | |
|------------------------|------|-----------|--|
| Toluene (CAS 108-88-3) | STEL | 384 mg/m3 | |
| | | 100 ppm | |
| | TWA | 192 mg/m3 | |
| | | 50 ppm | |

Biological limit values

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV), Social Affairs and Ministry of Health

| Components | Value | Determinant | Specimen | Sampling time | |
|------------------------|------------|---------------|----------|---------------|--|
| Toluene (CAS 108-88-3) | 500 nmol/l | Toluene | Blood | * | |
| | | concentration | | | |

^{* -} For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

| Components | Value | Determinant | Specimen | Sampling time |
|------------------------|-----------|---------------------|---------------------|---------------|
| Toluene (CAS 108-88-3) | 2500 mg/g | Acide hippurique | Creatinine in urine | * |
| | 2500 mg/g | Acide hippurique | Creatinine in urine | * |
| | 1 mg/l | Toluène | Venous | * |

^{* -} For sampling details, please see the source document.

Germany. TRGS 903, BAT List (Biological Limit Values)

| Components | Value | Determinant | Specimen | Sampling time |
|------------------------|------------------|-------------|----------|---------------|
| Aluminium oxide (CAS | 200 | Aluminium | Urine | * |
| 1344-28-1) | micrograms/liter | | | |
| Toluene (CAS 108-88-3) | 3 mg/l | o-Kresol | Urine | * |
| | 1 mg/l | Toluol | Blood | * |

^{* -} For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

| Components | Value | Determinant | Specimen | Sampling time |
|------------------------|--------|-------------|------------|---------------|
| Toluene (CAS 108-88-3) | 1 mg/g | o-crezol | Creatinine | * |
| | | | in urine | |

^{* -} For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

| Components | Value | Determinant | Specimen | Sampling time |
|------------------------|-----------|------------------------------------|---------------------|---------------|
| Toluene (CAS 108-88-3) | 1,6 g/g | Ácido hipúrico | Creatinine in urine | * |
| | 0,5 mg/l | o-cresol (Phenol, 2-methyl-) | Urine | * |
| | 0,05 mg/l | Tolueno | Blood | * |

^{* -} For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

| Components | Value | Specimen | Sampling time |
|------------------------|-------------------------|---------------------|---------------|
| Toluene (CAS 108-88-3) | 2 g/g | Creatinine in urine | * |
| | 0,5 mg/l | Urine | * |
| | 600 micrograms/liter | Blood | * |

^{* -} For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

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| Derived | no-effect | level | (DNEL) |
|----------------|-----------|-------|--------|
|----------------|-----------|-------|--------|

| Components | | Туре | Route | Value | Form |
|-------------------------------------|--|--|----------------------------------|----------------------|--|
| Aluminium oxide (CAS 1344-28-1) | | Workers | Inhalation | 15,63 mg/m3 | Long term exposure local effects |
| Dicumyl peroxide (CAS 80-43-3) | | Workers | Dermal | 2 mg/kg | Long term exposure systemic effects |
| | | | Inhalation | 1,4 mg/m3 | Long term exposure systemic effects |
| Graphite (CAS 7782-42-5) | | Workers | Inhalation | 1,2 mg/m3 | Long term exposure local effects |
| Toluene (CAS 108-88-3) | | Workers | Dermal | 384 mg/kg/day | Long term Systemic effects |
| | | | Inhalation | 384 mg/m3 | Acute Local effects |
| | | | Inhalation | 384 mg/m3 | Acute Systemic effects |
| | | | Inhalation | 192 mg/m3 | Long term Local effects |
| | | | Inhalation | 192 mg/m3 | Long term Systemic effects |
| redicted no effect concentration | ons (PNECs) | T | Davida | Value | F |
| Components | | Туре | Route | Value | Form |
| Aluminium oxide (CAS 1344-28-1) | | Aqua (freshwater) Sewage Treatment Plant | Not applicable Not applicable | | |
| Dicumyl peroxide (CAS 80-43-3) | | Aqua (freshwater) | Not applicable | 0,0023 mg/l | |
| | | Sediment (freshwater) | Not applicable | | |
| | | Sewage Treatment Plant | Not applicable | - | |
| | | Soil | Not applicable | | |
| Toluene (CAS 108-88-3) | | Aqua (freshwater) | Not applicable | | |
| | | Aqua (intermittent releases) | Not applicable | | |
| | | Aqua (marine water) Sediment | Not applicable Not applicable | | |
| | | (freshwater) Sediment (marine water) | Not applicable | 16,39 mg/kg | |
| | | Sewage Treatment Plant | Not applicable | 13,61 mg/l | |
| | | Soil | Not applicable | 2,89 mg/kg | |
| .2. Exposure controls | | | | | |
| ppropriate engineering ontrols | Provide adec | | rve Occupationa | al Exposure Limits a | and minimise the risk of |
| ndividual protection measures, | such as perso | onal protective equip | ment | | |
| General information | Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. | | | | |
| Eye/face protection Skin protection | Wear approved safety goggles. | | | | |
| • | 10/000 00000 | iva alavaa Dahadadal | | | la avvana that tha limital man |
| - Hand protection | Wear protective gloves. Polyvinyl alcohol gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. | | | | |
| - Other | Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. | | | | |
| Respiratory protection | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. | | | | |
| Thermal hazards | When material is heated, wear gloves to protect against thermal burns. | | | | |
| lygiene measures | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept separately. | | | | |
| invironmental exposure ontrols | - | al manager must be in | formed of all ma | ajor releases. | |

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Black pliable semi-solid with solvent odor.

Physical state Liquid.

Form Pliable semi-solid.
Colour Black. Odour

Solvent.

Odour threshold Not available.

pH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling 110 °C (230 °F)

range

Flash point 92,2 °C (198 °F) Closed cup

Evaporation rate 1 (Butyl acetate=1)
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure 6,0 mm Hg @ 20 °C Vapour density Not applicable.

Relative density 0,9

Solubility(ies) Negligible.

Partition coefficient Not available.

(n-octanol/water)

Decomposition temperatureNot available.ViscosityNot applicable.Explosive propertiesNot available.Oxidizing propertiesNot available.

9.2. Other informationNo relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

10.4. Conditions to avoid Flames and sparks.10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous Carbon oxides.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Inhalation High concentrations: Vapours may cause drowsiness and dizziness.

Skin contact May cause skin irritation. Prolonged or repeated contact may dry skin and cause dermatitis.

Components of the product may be absorbed into the body through the skin.

Eye contact May cause eye irritation.

Symptoms Irritation of eyes and mucous membranes. Symptoms include itching, burning, redness and

tearing.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

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Test results Components **Species**

Dicumyl peroxide (CAS 80-43-3)

Acute Oral

LD50 Rat 4100 mg/kg

Toluene (CAS 108-88-3)

Acute Dermal

LD50 Rabbit 14,1 ml/kg

Inhalation

LC50 Rat 49000 mg/m3, 4 Hours

Oral

LD50 Rat 636 mg/kg

Skin corrosion/irritation May cause skin irritation. Serious eye damage/irritation May cause eye irritation.

Not classified. Respiratory sensitisation

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity Not available. Not classified. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity -

single exposure

Not available.

Specific target organ toxicity -

repeated exposure

Not available.

Aspiration hazard Not classified. Mixture versus substance Not available.

information

Other information Not available.

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects. 12.1. Toxicity

Components **Species Test results**

Toluene (CAS 108-88-3)

Aquatic

EC50 Crustacea 5,46 - 9,83 mg/l, 48 hours Water flea (Daphnia magna)

Fish LC50 Coho salmon, silver salmon 5,5 mg/l, 96 hours

(Oncorhynchus kisutch)

12.2. Persistence and

degradability

The product contains inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol/water (log Kow)

> Toluene (CAS 108-88-3) 2,73 5,5 Dicumyl peroxide (CAS 80-43-3)

Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil

Mobility in general The product contains substances which are insoluble in water and which sediment in water

systems. The product contains volatile organic compounds (VOC) which will evaporate easily from

all surfaces.

No data available.

12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste code 08 04 09*

Disposal methods/information Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

SECTION 14: Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

This substance/mixture is not intended to be transported in bulk.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Toluene (CAS 108-88-3)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Toluene (CAS 108-88-3)

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Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Dicumyl peroxide (CAS 80-43-3) Toluene (CAS 108-88-3)

Directive 94/33/EC on the protection of young people at work

Toluene (CAS 108-88-3)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure. Follow national regulation for work with chemical agents.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD:

Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 R7 May cause fire. R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

environment

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R63 Possible risk of harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

H225 - Highly flammable liquid and vapour.

H242 - Heating may cause a fire.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently

available.

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