DOW CORNING(R) 340 HEAT SINK COMPOUND

| Version | Revision Date: 23.11.2016 | SDS Number: | Date of last issue: 19.03.2016 |
|---------|---------------------------|---------------|---------------------------------|
| 2.5 | | 1298250-00007 | Date of first issue: 09.02.2015 |
| | | | |

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

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| 1.1 Product identifier | |
|-----------------------------------|---|
| Trade name | : DOW CORNING(R) 340 HEAT SINK COMPOUND |
| Product code | : 0000000001015443 |
| 1.2 Relevant identified use | es of the substance or mixture and uses advised against |
| Use of the Sub- stance/Mixture | : Heat transfer agents |
| 1.3 Details of the supplier | of the safety data sheet |
| Company | : Dow Corning Europe S.A. rue Jules Bordet - Parc Industriel - Zone C B-7180 Seneffe |
| Telephone | : English Tel: +49 611237507 Deutsch Tel: +49 611237500 Français Tel: +32 64511149 Italiano Tel: +32 64511170 Español Tel: +32 64511163 |

| E-mail address of person | : | sdseu@dowcorning.com |
|--------------------------|---|----------------------|
| responsible for the SDS | | - |

1.4 Emergency telephone number

Dow Corning (Barry U.K. 24h) Tél: +44 1446732350 Dow Corning (Wiesbaden 24h) Tél: +49 61122158 Dow Corning (Seneffe 24h) Tel: +32 64 888240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 1272/2008) | | | |
|---|---|--|--|
| Acute aquatic toxicity, Category 1 | H400: Very toxic to aquatic life. | | |
| Chronic aquatic toxicity, Category 1 | H410: Very toxic to aquatic life with long lasting effects. | | |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006

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|---------------------------|---|---|--|
| ard pictograms | | ¥_2 | |
| al word | : Wa | rning | |
| ard statements | : H4 | 10 Very tox | ic to aquatic life with long lasting effects. |
| autionary statements | | | lease to the environment. |
| | | - | |
| | 23.11.2016 ard pictograms al word ard statements | 23.11.2016 12982 ard pictograms : al word : Wa ard statements : H4 autionary statements : Pre P27 Res | 23.11.2016 1298250-00007 ard pictograms : al word : word : Warning ard statements : autionary statements : Prevention: |

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2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Silicone compound

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification | Concentration (% w/w) |
|---------------|--|--|--------------------------|
| Zinc oxide | 1314-13-2 215-222-5 01-2119463881-32 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 50 - < 70 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
|----------------------------|---|--|
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact | : | Wash with water and soap as a precaution. Get medical attention if symptoms occur. |
| In case of eye contact | : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. |

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|-----|--------|---|
| | | |

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Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.3

ods

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--------------------------------|---|---|
| Unsuitable extinguishing media | : | None known. |

5.2 Special hazards arising from the substance or mixture

| | opoolai nazai ao anonig nom | | |
|---|---|---|--|
| | Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
| | Hazardous combustion prod- ucts | : | Metal oxides Carbon oxides Silicon oxides Formaldehyde |
| ; | Advice for firefighters | | |
| | Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment. |
| | Specific extinguishing meth- | : | Use extinguishing measures that are appropriate to local cir- |

| : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. |
|---|---|
| | Evacuate area. |
| | : |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Follow safe handling advice and personal protective equip- |
|----------------------|---|--|
| | | ment recommendations. |



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| 6.2 Enviror | nmental precautions | | |
| Enviro | nmental precautions | Prevent further Retain and disp | the environment must be avoided. leakage or spillage if safe to do so. oose of contaminated wash water. s should be advised if significant spillages ained. |
| 6.3 Method | Is and material for co | ntainment and clea | ning up |
| Metho | ds for cleaning up | For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and | ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can pre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements. |

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

| 7.1 Precautions for safe handling | |
|--|--|
| Technical measures : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation : | Use only with adequate ventilation. |
| Advice on safe handling : | Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures : | Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. |
| 7.2 Conditions for safe storage, incl | uding any incompatibilities |
| Requirements for storage : areas and containers | Keep in properly labelled containers. Store in accordance with the particular national regulations. |
| Advice on common storage : | Do not store with the following product types: |

7.3 Specific end use(s)

Strong oxidizing agents

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| Specifi | c use(s) | • | ns are for room temperature handling. Use at ature or aerosol/spray applications may re- autions. |

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| 0 | · · | • • | · · · | |
|----------------|-----------|-----------------|-------------------------------|----------------------|
| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
| Zinc oxide | Workers | Skin contact | Long-term systemic effects | 83 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 5 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 83 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 2.5 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 0.83 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-------------|
| Zinc oxide | Fresh water | 20.6 µg/l |
| | Marine water | 6.1 µg/l |
| | Sewage treatment plant | 52 μg/l |
| | Fresh water sediment | 117.8 mg/kg |
| | Marine sediment | 56.5 mg/kg |
| | Soil | 35.6 mg/kg |

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

| Personal protective equipm | ent | |
|----------------------------|-----|--|
| Eye protection | : | Wear the following personal protective equipment: Safety glasses |
| Hand protection Remarks | : | Wash hands before breaks and at the end of workday. |
| Skin and body protection | : | Skin should be washed after contact. |
| Respiratory protection | : | Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that |

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|-------------|--------------------|--------------------------------------|-------|--------------------------|---|
| | | | | exposures are wit | hin recommended exposure guidelines. |
| | Filte | er type | | Particulates type | |
| _ | 1 110 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | • | r allieulatee type | |
| SEC | | 9: Physical and che | emic | al properties | |
| 9.1 l | nforma | tion on basic physica | al an | d chemical prope | erties |
| | Appear | | : | paste | |
| | Colour | | : | white | |
| | Odour | | : | none | |
| | Odour ⁻ | Threshold | : | No data available | 9 |
| | pН | | : | Not applicable | |
| | Melting | point/freezing point | : | No data available | 9 |
| | Initial b range | oiling point and boiling | : | Not applicable | |
| | Flash p | oint | : | Not applicable | |
| | Evapor | ation rate | : | Not applicable | |
| | Flamm | ability (solid, gas) | : | Not classified as | a flammability hazard |
| | Upper e | explosion limit | : | No data available |) |
| | Lower | explosion limit | : | No data available |) |
| | Vapour | pressure | : | Not applicable | |
| | Relativ | e vapour density | : | No data available |) |
| | Relative | e density | : | 2.0 | |
| | Solubili Wat | ty(ies) er solubility | : | No data available | 9 |
| | Partitio | n coefficient: n- | : | No data available | 9 |

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|----------------|---------------------------|------------------------------|--|
| Explo | sive properties | : Not explosive | |
| Oxidi | zing properties | : The substanc | e or mixture is not classified as oxidizing. |
| | information | : No data avail | |
| wored | cular weight | . NO Gala availa | |
| Self-i | gnition | | e or mixture is not classified as pyrophoric. The nixture is not classified as self heating. |

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

| Hazardous reactions : | Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures. |
|-----------------------|---|
|-----------------------|---|

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Information on likely routes of | : | Skin contact |
|---------------------------------|---|--------------|
| exposure | | Ingestion |
| | | Eye contact |

Acute toxicity

Not classified based on available information.

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| | DOV | V CO | RNII | VG |
|--|-----|------|------|----|
|--|-----|------|------|----|

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|----------------|---------------------------|---------------------------------------|---|
| Compo | onents: | | |
| Zinc o | xide: | | |
| Acute | oral toxicity | : LD50 (Rat): > 5,0 Method: OECD T | 000 mg/kg Test Guideline 401 |
| Acute i | nhalation toxicity | | h |

Skin corrosion/irritation

Not classified based on available information.

Components:

Zinc oxide:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Zinc oxide:

Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Zinc oxide:

Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative



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|----------------|--|---------------------------|--|--|
| 2.0 | 23.11.2010 | 129023 | 0-00007 | Date of hist issue. 09.02.2013 |
| | n cell mutagenicity | | | |
| | classified based on avail | able infor | mation. | |
| | ponents: | | | |
| - | oxide: | | | |
| Gen | otoxicity in vitro | Met | | rial reverse mutation assay (AMES) est Guideline 471 |
| Gen | otoxicity in vivo | cyto Spe App Met | ogenetic assa ecies: Rat plication Route | |
| | :inogenicity classified based on avail | able infor | mation. | |
| - | roductive toxicity classified based on avail | able infor | mation. | |
| Com | ponents: | | | |
| Zinc | oxide: | | | |
| Effeo | cts on fertility | Spe App Met | ecies: Rat | generation reproduction toxicity study e: Ingestion Fest Guideline 416 |
| Effeo men | cts on foetal develop- t | Spe App | t Type: Embr ecies: Hamste blication Route sult: negative | |

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Zinc oxide:

Exposure routes: inhalation (dust/mist/fume) Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Remarks: Based on data from similar materials



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Repeated dose toxicity

Components:

Zinc oxide:

Species: Rat NOAEL: 1.5 mg/m3 Application Route: inhalation (dust/mist/fume) Exposure time: 3 Months Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

| Zinc oxide: | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 330 - 780 µg/l Exposure time: 96 h Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 6.9 - 16.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : | EC50 (Selenastrum capricornutum (green algae)): 136 μg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | NOEC (Selenastrum capricornutum (green algae)): 24 µg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic tox- icity) | : | 1 |
| Toxicity to microorganisms | : | EC50 : 5.2 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic tox- icity) | : | NOEC: 199 µg/l Exposure time: 30 d Species: Oncorhynchus mykiss (rainbow trout) Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chron- | : | NOEC: 37 μg/l Exposure time: 21 d |

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|----------------|---|-----------------------------------|---|--|--|--|--|--|
| ic to | oxicity) | | Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials | | | | | |
| M-F toxi | actor (Chronic aquatic city) | : 1 | | | | | | |
| No | 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential | | | | | | | |
| | nponents: | | | | | | | |
| | c oxide: accumulation | : Species: Bioconce | Fish entration factor (BCF): 177 | | | | | |
| | bility in soil data available | | | | | | | |
| | sults of PBT and vPvB a relevant | essment | | | | | | |
| | er adverse effects data available | | | | | | | |
| SECTIO | N 13: Disposal consi | rations | | | | | | |
| 13.1 Wa | ste treatment methods | | | | | | | |
| Pro | duct | Accordin are not p Waste co | of in accordance with local regulations. Ig to the European Waste Catalogue, Waste Codes product specific, but application specific. Dodes should be assigned by the user, preferably in | | | | | |

 discussion with the waste disposal authorities.
 Contaminated packaging

 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

| ADN | : | UN 3077 |
|------|---|---------|
| ADR | : | UN 3077 |
| RID | : | UN 3077 |
| IMDG | : | UN 3077 |
| ΙΑΤΑ | : | UN 3077 |

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| 14.2 UN proper shipping name : SinvireONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide) IMDG : Environmentally hazardous substance, solid, n.o.s. (Zinc oxide) ADN : Portionmentally hazardous substance, solid, n.o.s. (Zinc oxide) IMDG : 9 ADN : 9 ADR : 9 ADR : 9 IMDG : 9 IATA : 9 Classification Code : 9 ILabels : 11 Classification Code : 9 ILabels : 9 Labels : 9 Labels : 9 <t< th=""><th>Versio 2.5</th><th>n Revision Date: 23.11.2016</th><th>SDS Nu 1298250</th><th></th><th>Date of last issue: 19.03.2016 Date of first issue: 09.02.2015</th></t<> | Versio 2.5 | n Revision Date: 23.11.2016 | SDS Nu 1298250 | | Date of last issue: 19.03.2016 Date of first issue: 09.02.2015 |
|--|------------------------|---|------------------------------|-----|---|
| N.O.S. (Zinc oxide) ADR : RID : RID : IMDG : IMDG : IMDG : IATA : ADR : IMDG : IATA : ADR : ADR : ADR : IATA : ADN : ADR : IMDG : IATA : Packing group : IATA : Packing group : IATA : Packing group : IATA : Packing group <td:< td=""> : :</td:<> | 14.2 U | N proper shipping name | | | |
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| IATAN.O.S. (Zinc oxide)IATA:Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)14.3 Transport hazard class(es):ADN:9ADR:9ADR:9RID:9IMDG:9IATA:9IATA:914.4 Packing group:IIIClassification Code:M7Hazard Identification Number:90Labels:9Tunnel restriction code:M7Hazard Identification Number:90Labels:90Classification Code:M7Hazard Identification Number:90Labels:90Tunnel restriction code:M7Hazard Identification Number:90Labels:90Tunnel restriction code:!Packing group:IIIClassification Code:!HDC:!Packing group:!Classification Code:!Packing group:!Labels:!Packing group:!HDC:!Packing group:!Hazard Identification Number:Packing group:!Classification Code:Hazard Identification Number:Packin | R | ID | N.O. | S. | ALLY HAZARDOUS SUBSTANCE, SOLID, |
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| ADR:9RID:9RID:9IMDG:9IATA:9tat-Packing group:IIIClassification Code:M7Hazard Identification Number:9Labels:90Labels:Packing group:KDR:Packing group:Packing group:Classification Code::IIIClassification Code::IIIClassification Code::IIIClassification Code::IIIClassification Code:::Packing group::IIIClassification Code:: </td <td>14.3 T</td> <td>ransport hazard class(es)</td> <td></td> <td></td> <td></td> | 14.3 T | ransport hazard class(es) | | | |
| RID::IMDG::IMDG::IATA::D::tat-Packing group:IIIClassification Code::Hazard Identification Number::DR::Packing group:IIIClassification Code::tabels::Packing group::Classification Code::Packing group:IIIClassification Code::Packing group::Classification Code::Packing group:IIIClassification Code::RID::Packing group::Classification Code::Rib:Packing group::ILabels:IDG:Packing group::ILabels:IDG:Packing group:ILabels:IDGPacking group:ILabels:IDGPacking group:ILabels:IDGPacking group:ILabels:ILabels:IDGILabels:IDGIDGIDGIDGIDGIDGIDG <tr< td=""><td>Α</td><td>DN</td><td>: 9</td><td></td><td></td></tr<> | Α | DN | : 9 | | |
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| IATA:9IATA:Backing group:IIIPacking group:IIIClassification Code:90Labels:90Labels:90ADR:Packing group:IIIClassification Code:90Labels:90Description Code:90Labels:90Labels:90Tunnel restriction code:RID:Packing group:ILabels:Description Code:ID:Packing group:ILabels:ILabels:ILabels:IDPacking group:ILabels:ILabels:IDILabels:IDILabelsIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELSIDILABELS </td <td>R</td> <td>ID</td> <td>: 9</td> <td></td> <td></td> | R | ID | : 9 | | |
| 14.4 Packing groupADNPacking groupIIIClassification CodeM7Hazard Identification Number90Labels3ADRPacking groupIIIClassification CodeM7Hazard Identification Number90Labels1Packing groupKClassification CodeM7Hazard Identification Number90Labels9Tunnel restriction codeEPacking groupIIIClassification Code9Labels90Labels9Immodel90Labels9Labels9Labels9Ems Code9Ems Code9Ems CodeF-A, S-F | IN | /IDG | : 9 | | |
| ADNPacking group:IIIClassification Code:M7Hazard Identification Number:90Labels:Packing group:IIIClassification Code:M7Hazard Identification Number:90Labels:100Labels:91Tunnel restriction code:111Classification Code:Packing group:112Packing group:113Classification Code:114Classification Code:115Classification Number:90Labels:91Packing group:114Classification Number:90Labels:91IMDGPacking group:Packing group:114Labels:92EmS Code:F-A, S-F | IA | ATA | : 9 | | |
| Packing group:IIIClassification Code:M7Hazard Identification Number:90Labels::ADR:IIIPacking group:IIIClassification Code:M7Hazard Identification Number:90Labels:9Tunnel restriction code:9Tunnel restriction code:(E)RID:IIIClassification Code:M7Hazard Identification Number:90Labels:9Tunnel restriction code:IIIClassification Code:M7Hazard Identification Number:90Labels:9Hazard Identification Number:90Labels:9Labels:9EmS Code:F-A, S-F | 14.4 P | acking group | | | |
| ADRPacking group:IIIClassification Code:M7Hazard Identification Number:90Labels:9Tunnel restriction code:(E)RID:Packing group:IIIClassification Code:90Labels:90Labels:90Labels:90Labels:90Labels:90Labels:9IMDG:9Packing group:IIILabels:9EmS Code:F-A, S-F | P C H | acking group lassification Code azard Identification Number | : M7 : 90 | | |
| Packing group:IIIClassification Code:M7Hazard Identification Number:90Labels:9IMDGPacking group:IIILabels:9EmS Code:F-A, S-F | A P C H La | DR acking group lassification Code azard Identification Number abels | : III : M7 : 90 : 9 | | |
| Packing group:IIILabels:9EmS Code:F-A, S-F | P C H | acking group lassification Code azard Identification Number | : III : M7 : 90 | | |
| IATA (Cargo) | P: La | acking group abels | : 9 | S-F | |
| | IA | ATA (Cargo) | | | |

according to Regulation (EC) No. 1907/2006

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|-----------------------|---|------|-------------------------------------|---|
| aircr Pacl | king instruction (LQ) king group | : | 956 Y956 III Miscellaneous | |
| Pacl ger a Pacl | A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els | : | 956 Y956 III Miscellaneous | |
| 14.5 Env | ironmental hazards | | | |
| ADN Envi | l ronmentally hazardous | : | yes | |
| ADF Envi | R ronmentally hazardous | : | yes | |
| RID Envi | ronmentally hazardous | : | yes | |
| IMD Mari | G ine pollutant | : | yes | |
| | A (Passenger) ine pollutant | : | yes | |
| | A (Cargo) ine pollutant | : | yes | |
| - | cial precautions for use | er | | |
| 14.7 Trai | nsport in bulk accordin | g to | Annex II of Marp | ol and the IBC Code |
| Rem | narks | : | Not applicable fo | r product as supplied. |
| | N 15: Regulatory info | | | |
| 15.1 Safe ture | ety, health and environ | men | tal regulations/leg | gislation specific for the substance or mix- |

| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |
|--|---|----------------|
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EC) No 850/2004 on persistent organic pol- lutants | : | Not applicable |
| Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals | : | Not applicable |

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|-------------|--------|--|-----|--|--|---|--|
| | | 0 III: Directive 2012/18/ accident hazards involv | | | | | |
| | E1 | | | ENVIRONMENTA HAZARDS | AL. | Quantity 1 100 t | Quantity 2 200 t |
| | The co | mponents of this pro | duc | t are reported in t | he follow | ing inventories: | |
| | NZIoC | | : | All ingredients list | ed or exen | npt. | |
| | TSCA | | : | All chemical subs TSCA Inventory o exemption. | | | |
| | AICS | | : | All ingredients list | ed or exen | npt. | |
| | IECSC | | : | All ingredients list | ed or exen | npt. | |
| | ENCS/ | ISHL | : | All components an inventory listing. | re listed or | n ENCS/ISHL or ex | xempted from |
| | KECI | | : | All ingredients list | ed, exemp | t or notified. | |
| | PICCS | | : | All ingredients list | ed or exen | npt. | |
| | DSL | | : | All chemical subs 1999 and NSNR a nadian Domestic | and are on | or exempt from lis | |
| | REACH | 1 | : | For purchases fro ents are currently Please refer to se chases from non- tion to export into tive/local office. | pre/registe ction 1 for EU Dow C | ered or exempt un recommended us orning legal entitie | der REACH. es. For pur- es with the inten- |
| | TCSI | | : | All ingredients list | ed or exen | npt. | |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

| Full text of H-Statements | | | | | |
|----------------------------------|---|--|--|--|--|
| H400 H410 | Very toxic to aquatic life.Very toxic to aquatic life with long lasting effects. | | | | |
| Full text of other abbreviations | | | | | |
| Aquatic Acute Aquatic Chronic | Acute aquatic toxicityChronic aquatic toxicity | | | | |

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|---------|----------------|---------------|---------------------------------|
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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Sources of key data used to | : | Internal technical data, data from raw material SDSs, OECD |
|-----------------------------|---|--|
| compile the Safety Data | | eChem Portal search results and European Chemicals Agen- |
| Sheet | | cy, http://echa.europa.eu/ |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

according to Regulation (EC) No. 1907/2006

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