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

| 1.1 Product identifier | | | | |
|--|------|--|--|--|
| Trade name | : | DOWSIL™ 995 Silicone Structural Sealant Gray | | |
| Product code | : | 04009024 | | |
| 1.2 Relevant identified uses of the | ne s | substance or mixture and uses advised against | | |
| Use of the Sub- stance/Mixture | : | Adhesive, binding agents | | |
| 1.3 Details of the supplier of the | saf | ety data sheet | | |
| Company | : | DOW CHEMICAL COMPANY LIMITED STATION ROAD, BIRCH VALE, HIGH PEAK DERBYSHIRE England SK22 1BR UNITED KINGDOM | | |
| Telephone | : | +44 (0) 1663 746518 | | |
| Telefax | : | +44 (0) 1663 746605 | | |
| E-mail address of person responsible for the SDS | : | SDSQuestion@dow.com | | |
| 1.4 Emergency telephone number | | | | |
| 24-Hour Emergency Contact | : | 0031 115 694 982 | | |
| Local Emergency Contact | : | 00 31 115 69 4982 | | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

:

Not a hazardous substance or mixture.

Precautionary statements

Prevention:

P271 Use only outdoors or in a well-ventilated area.



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Additional Labelling

| EUH210 | Safety data sheet available on request. |
|--------|--|
| EUH208 | Contains Methyltrimethoxysilane, 3-Mercaptopropyl trimethoxysilane. May pro- |
| | duce an allergic reaction. |

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Silicone elastomer

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|---|--------------------------|
| Methyltrimethoxysilane | 1185-55-3 214-685-0 01-2119517436-40 | Flam. Liq. 2; H225 Skin Sens. 1B; H317 | >= 0.1 - < 1 |
| 3-Mercaptopropyl trimethoxysi- lane | 4420-74-0 224-588-5 | Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 2; H411 | >= 0.1 - < 0.25 |

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 ai | d 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 p | ersists. |
| If swallowed | : If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. | |

4.2 Most important symptoms and effects, both acute and delayed

| Risks |
|-------|
|-------|

: May produce an allergic reaction.



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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 | | |
|--|-----|---|
| 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 | e substance or mixture |
| Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Carbon oxides Silicon oxides Formaldehyde Metal oxides |
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if ne- cessary. Use personal protective equipment. |
| Specific extinguishing me- thods | : | 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, protec | tive | e equipment and emergency procedures |
|----------------------------------|------|--|
| Personal precautions | : | Follow safe handling advice and personal protective equip- ment recommendations. |
| 6.2 Environmental precautions | | |
| Environmental precautions | : | Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages |



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| | | cannot be contain | ned. | | | | | |
| 6.3 Method | 6.3 Methods and material for containment and cleaning up | | | | | | | |
| Metho | ds for cleaning up | For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and | At absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can be recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational 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 | : | Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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, | , inc | luding 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: Strong oxidizing agents |
| 7.3 Specific end use(s) | | |
| Specific use(s) | : | These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may re- quire added precautions. |



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|---|---|--|--|---|
| Calcium carbonate treated with stearic acid | Not As- signed | of exposure) TWA (inhalable dust) | 10 mg/m3 | GB EH40 |
| Further information | fractions of air in accordance sampling and COSHH defini- kind when pre- 8-hour TWA of This means the above these lese posure to these contain particul body response HSE distinguis 'inhalable' and borne materia fore available imates to the Fuller definition dusts contain limits should b | borne dust which wi with the methods de gravimetric analysis ition of a substance I sent at a concentrat f inhalable dust or 4 hat any dust will be s evels. Some dusts hat e must comply with es of a wide range of ar particle after entry that it elicits, dependent that it elicits, dependent shes two size fraction I 'respirable'., Inhala I that enters the nose for deposition in the fraction that penetrat ns and explanatory is components that has be complied with., W | espirable dust and inhalable Il be collected when sampling escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater mg.m-3 8-hour TWA of resp ubject to COSHH if people a ave been assigned specific V the appropriate limit., Most in f sizes. The behaviour, depory into the human respiratory of on the nature and size of ns for limit-setting purposes ole dust approximates to the e and mouth during breathing respiratory tract. Respirable tes to the gas exchange region material are given in MDHS1 ve their own assigned WEL, here no specific short-term e <u>arterm exposure should be us</u> | g is undertaken ral methods for dust, The dust of any than 10 mg.m-3 irable dust. re exposed VELs and ex- ndustrial dusts osition and fate system and the the particle. termed fraction of air- g and is there- dust approx- on of the lung. 4/3., Where all the relevant ixposure limit is sed |
| | | TWA (Respirable dust) | 4 mg/m3 | GB EH40 |
| Further information | fractions of air in accordance sampling and COSHH defini- kind when pre 8-hour TWA of This means the above these lese posure to these contain particul of any particul body response HSE distinguis 'inhalable' and | borne dust which wi with the methods de gravimetric analysis ition of a substance I sent at a concentrat f inhalable dust or 4 hat any dust will be s evels. Some dusts has evels. Some dusts has evels. Some dusts has evels of a wide range of ar particle after entry that it elicits, depen- shes two size fractio I 'respirable'., Inhalal | espirable dust and inhalable Il be collected when sampling escribed in MDHS14/3 Gene of respirable and inhalable of hazardous to health includes ion in air equal to or greater mg.m-3 8-hour TWA of resp ubject to COSHH if people a ave been assigned specific V the appropriate limit., Most in f sizes. The behaviour, deport y into the human respiratory nd on the nature and size of ns for limit-setting purposes ole dust approximates to the e and mouth during breathing | g is undertaken ral methods for dust, The dust of any than 10 mg.m-3 irable dust. re exposed VELs and ex- ndustrial dusts sition and fate system and the the particle. termed fraction of air- |



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| | i F C I | mates to the f Fuller definitio dusts contain limits should b listed, a figure | fraction that penetra ins and explanatory components that ha be complied with., W three times the long | respiratory tract. Respirable tes to the gas exchange regio material are given in MDHS1 ve their own assigned WEL, here no specific short-term e g-term exposure should be us | on of the lung. 4/3., Where all the relevant xposure limit is sed |
| Methy ysilar | , | 1185-55-3 | TWA | 7.5 ppm | DCC OEL |

These substance(s) are inextricably bound in the product and therefore do not contribute to a dust inhalation hazard.

Calcium carbonate treated with stearic acid

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

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|-----------------------------|-----------|-----------------|-------------------------------|----------------------|
| Methyltrimethoxysi- lane | Workers | Skin contact | Acute systemic ef- fects | 0.38 mg/kg bw/day |
| | Workers | Inhalation | Acute systemic ef- fects | 25.6 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.38 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 25.6 mg/m3 |
| | Consumers | Skin contact | Acute systemic ef- fects | 0.3 mg/kg bw/day |
| | Consumers | Inhalation | Acute systemic ef- fects | 6.25 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 0.26 mg/kg bw/day |
| | Consumers | Skin contact | Long-term systemic effects | 0.3 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 6.25 mg/m3 |
| | Consumers | Ingestion | Acute systemic ef- fects | 0.26 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|------------------------|---------------------------|---------------|
| Methyltrimethoxysilane | Fresh water | >= 1.3 mg/l |
| | Marine water | >= 0.13 mg/l |
| | Fresh water sediment | >= 1.1 mg/kg |
| | Marine sediment | >= 0.11 mg/kg |
| | Soil | >= 0.17 mg/kg |
| | Sewage treatment plant | > 6.9 mg/l |



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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 | nent | |
|----------------------------|------|---|
| Eye protection | : | Wear the following personal protective equipment: Safety glasses |
| Hand protection Remarks | : | For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday. |
| Skin and body protection | : | Skin should be washed after contact. |
| Respiratory protection | : | No personal respiratory protective equipment normally re- quired. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : | paste |
|---|---|---|
| Colour | : | grey |
| Odour | : | alcohol-like |
| Odour Threshold | : | No data available |
| рН | : | Not applicable |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | Not applicable |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | Not classified as a flammability hazard |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | Not applicable |



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| | | | | | |
| F | Relativ | e vapour density | : | No data available | e |
| F | Relativ | e density | : | 1.35 | |
| S | Solubili Wat | ity(ies) ter solubility | : | No data available | e |
| | | n coefficient: n- I/water | : | No data available | 9 |
| A | Auto-ig | nition temperature | : | No data available | 9 |
| 0 | Decom | position temperature | : | No data available | e |
| ١ | Viscosi Visc | ity cosity, dynamic | : | Not applicable | |
| E | Explosi | ive properties | : | Not explosive | |
| C | Oxidizi | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| 9.2 O | ther in | nformation | | | |
| Ν | Molecu | ılar weight | : | No data available | e |
| F | Particle | e size | : | No data available | e |
| S | Self-igr | nition | : | | r mixture is not classified as pyrophoric. The ture 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 decomposition products will be formed at elevate temperatures. | Hazardous reactions | Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Methyl alcohol is formed upon contact with water or humid ai Hazardous decomposition products will be formed at elevated temperatures. |
|--|---------------------|--|
|--|---------------------|--|

10.4 Conditions to avoid

Conditions to avoid

: None known.



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|).5 Incon | npatible materials | | | |
| | ials to avoid | : | Oxidizing agents | |
| | | | lucto | |
| | rdous decomposition p nal decomposition | oroc | Formaldehyde | |
| mom | | • | 1 onnaldonydd | |
| ECTION | I 11: Toxicological in | for | mation | |
| 1.1 Inforr | mation on toxicological | l ef | ects | |
| | nation on likely routes of | | Skin contact | |
| expos | sure | | Ingestion Eye contact | |
| | | | Eye contact | |
| Acute | e toxicity | | | |
| Not cl | assified based on availa | ble | information. | |
| Comp | oonents: | | | |
| Methy | yltrimethoxysilane: | | | |
| Acute | oral toxicity | : | LD50 (Rat): 12.3 | |
| | | | Assessment: The icity | substance or mixture has no acute oral tox- |
| | | | • | tion taken from reference works and the |
| Acute | inhalation toxicity | : | LC50 (Rat): > 42. | |
| | | | Exposure time: 6 Test atmosphere: | |
| | | | | substance or mixture has no acute inhala- |
| | | | tion toxicity Remarks: On bas | in of toot data |
| | | | Remarks. On bas | |
| Acute | dermal toxicity | : | LD50 (Rabbit): > 9 | |
| | | | toxicity | substance or mixture has no acute dermal |
| | | | Remarks: On bas | is of test data. |
| 3-Mer | captopropyl trimethox | ysil | ane: | |
| | oral toxicity | - | LD50 (Rat): 0.73 | |
| | | | Remarks: On bas | is of test data. |
| Acute | dermal toxicity | : | LD50 (Rat): 2.14 | nl/kg |
| | - | | Remarks: On bas | |
| Skin | corrosion/irritation | | | |
| - | assified based on availa | ble | information | |



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Components:

Methyltrimethoxysilane:

Species: Rabbit Result: No skin irritation Remarks: On basis of test data.

3-Mercaptopropyl trimethoxysilane:

Species: Rabbit Result: No skin irritation Remarks: On basis of test data.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Species: Rabbit Result: No eye irritation Remarks: On basis of test data.

3-Mercaptopropyl trimethoxysilane:

Species: Rabbit Result: No eye irritation Remarks: On basis of test data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Species: Guinea pig Result: positive Remarks: On basis of test data.

3-Mercaptopropyl trimethoxysilane:

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Test Type: Buehler Test Remarks: On basis of test data.



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Germ cell mutagenicity

Not classified based on available information.

Components:

| Methyltrimethoxysilane: | |
|--|--|
| Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: On basis of test data. |
| | Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: positive Remarks: On basis of test data. |
| | Test Type: Chromosome aberration test in vitro Result: positive Remarks: On basis of test data. |
| Genotoxicity in vivo : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative Remarks: On basis of test data. |
| Germ cell mutagenicity- As- : sessment | Animal testing did not show any mutagenic effects. |

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Methyltrimethoxysilane:

| Effects on fertility : | Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on fertility Remarks: On basis of test data. |
|-----------------------------------|---|
| Effects on foetal develop- : ment | Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat, male and female Application Route: Ingestion Symptoms: No effects on foetal development Remarks: On basis of test data. |



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sessment

Reproductive toxicity - As- : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Methyltrimethoxysilane:

Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

Methyltrimethoxysilane:

Species: Rat Application Route: inhalation (vapour) Remarks: On basis of test data.

Species: Rat **Application Route: Ingestion** Remarks: On basis of test data.

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

| Methyltrimethoxysilane: | | |
|-------------------------|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 110 mg/l |

| I OXICITY TO TISH | : | Exposure time: 96 h |
|---|---|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia sp. (water flea)): > 122 mg/l Exposure time: 48 h |
| Toxicity to algae | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 120 mg/l |



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| | | | Exposure time: 7 Method: OECD T | 2 h Test Guideline 201 |
| Тс | oxicity to microorganisms | : | EC50 : > 100 mg Method: OECD T | /l est Guideline 209 |
| 3- | Mercaptopropyl trimethox | vsi | lane: | |
| | oxicity to fish | - | | o (zebra fish)): 439 mg/l 6 h |
| | oxicity to daphnia and other juatic invertebrates | : | EC50 (Daphnia n Exposure time: 4 | nagna (Water flea)): 6.7 mg/l 8 h |
| Тс | oxicity to algae | : | ErC50 (Scenedes Exposure time: 7 | smus subspicatus): 931 mg/l 2 h |
| Тс | exicity to microorganisms | : | EC50 : 440 mg/l | |
| E | cotoxicology Assessment | | | |
| | nronic aquatic toxicity | | Toxic to aquatic li | ife with long lasting effects. |
| 12.2 Po | ersistence and degradabil | ity | | |
| <u>C</u> | omponents: | | | |
| 3- | Mercaptopropyl trimethox | ysi | lane: | |
| Bi | odegradability | : | Result: Not readil Biodegradation: | |
| | | | Exposure time: 2 | 8 d |
| | | | Method: OECD 1 | est Guideline 301 |
| 12.3 B | ioaccumulative potential | | | |
| <u>C</u> | omponents: | | | |
| M | ethyltrimethoxysilane: | | | |
| | artition coefficient: n- tanol/water | : | log Pow: -2.36 | |
| | obility in soil o data available | | | |
| 12.5 R | esults of PBT and vPvB as | sse | ssment | |
| | ot relevant | | | |
| | ther adverse effects o data available | | | |
| | | | | |



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SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | | |
|------------------------------|---|---|
| Product | : | 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. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

Remarks

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |
|---|---|----------------|
| Regulation (EC) No 1005/2009 on substances that dep- lete 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- | : | Not applicable |



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| | ment and the Council concerning the export and import of dangerous chemicals | | | | | | |
| | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable | | | | | | |
| | The components of this product are reported in the following inventories: AICS : All ingredients listed or exempt. | | | | | | |
| IE | ECSC | : | All ingredients list | ed or exempt. | | | |
| E | NCS/ISHL | : | All components a inventory listing. | re listed on ENCS/ISHL or exempted from | | | |
| Р | ICCS | : | All ingredients list | ed or exempt. | | | |
| R | EACH | : | dients are current Please refer to se chases from non- | m Dow Chemical EU legal entities, all ingre- ly pre/registered or exempt under REACH. ection 1 for recommended uses. For pur- EU Dow Chemical legal entities with the t into EEA please contact your DC repre- ice. | | | |
| T | SCA | : | | tances in this product are either listed on the or are in compliance with a TSCA Inventory | | | |
| К | ECI | : | All ingredients list | ed, exempt or notified. | | | |
| D | SL | : | 1999 and NSNR | tances in this product comply with the CEPA and are on or exempt from listing on the Ca- Substances List (DSL). | | | |
| Т | CSI | : | All ingredients list | ed or exempt. | | | |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

| Full text of H-Statements | | | | | |
|----------------------------------|---|--|--|--|--|
| H225 H302 H317 H411 | : | Highly flammable liquid and vapour. Harmful if swallowed. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. | | | |
| Full text of other abbreviations | | | | | |
| Acute Tox. Aquatic Chronic | : | Acute toxicity Chronic aquatic toxicity | | | |



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|----------------|---------------------------|--------------------------|---|
| | ens. DEL | Time weighted av | uide Workplace Exposure Limits |

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: SVHC - Substance of Very High Concern: 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.

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