



# DRY FLEX® 4 - Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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Supersedes: 16-12-2014

Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : DRY FLEX® 4 - Component A

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Elastic repair compound  
Product only to be used in combination with component B.

##### 1.2.2. Uses advised against

No additional information available

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

Repair Care International  
Cartografenweg 34  
5141 MT Waalwijk - Nederland  
T + 31(0) 416 650095 - F + 31(0) 416 652024  
[info@repair-care.com](mailto:info@repair-care.com) - [www.repair-care.com](http://www.repair-care.com)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address   | Emergency number | Remark  |
|----------------|---|---|------------------|---|
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of hazard classes and H-statements : see section 16

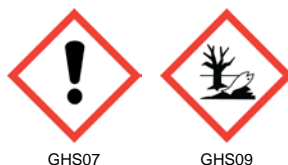
##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazardous ingredients :

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and

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|                                |   |
|--------------------------------|---|
| Hazard statements (CLP)        | : phenol; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.<br>: H315 - Causes skin irritation<br>: H317 - May cause an allergic skin reaction<br>: H319 - Causes serious eye irritation<br>: H411 - Toxic to aquatic life with long lasting effects   |
| Precautionary statements (CLP) | : P261 - Avoid breathing vapours<br>: P264 - Wash hands and forearms thoroughly after handling<br>: P272 - Contaminated work clothing should not be allowed out of the workplace<br>: P273 - Avoid release to the environment<br>: P280 - Wear eye protection, protective clothing, protective gloves<br>: P302+P352 - IF ON SKIN: Wash with plenty of soap and water |
| EUH-statements                 | : EUH205 - Contains epoxy constituents. May produce an allergic reaction  |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|---------------|--|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)   | (CAS-No.) 25068-38-6<br>(EC-No.) 500-033-5<br>(EC Index-No.) 603-074-00-8<br>(REACH-no) 01-2119456619-26 | < 50          | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                             |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs.   | (CAS-No.) 68609-97-2<br>(EC-No.) 271-846-8<br>(EC Index-No.) 603-103-00-4<br>(REACH-no) 01-2119485289-22 | < 25          | Skin Irrit. 2, H315<br>Skin Sens. 1, H317  |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol   | (CAS-No.) 9003-36-5<br>(EC-No.) 500-006-8<br>(REACH-no) 01-2119454392-40                                 | < 25          | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |
| nonylphenol<br>substance listed as REACH Candidate (4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]) | (CAS-No.) 25154-52-3<br>(EC-No.) 246-672-0<br>(EC Index-No.) 601-053-00-8                                | < 1           | Repr. 2, H361f<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

#### Specific concentration limits:

| Name   | Product identifier   | Specific concentration limits                                       |
|--|--|---|
| reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) | (CAS-No.) 25068-38-6<br>(EC-No.) 500-033-5<br>(EC Index-No.) 603-074-00-8<br>(REACH-no) 01-2119456619-26 | (C $\geq$ 5) Skin Irrit. 2, H315<br>(C $\geq$ 5) Eye Irrit. 2, H319 |

Comments : Without VOC (volatile organic compounds)

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).   |
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.   |
| First-aid measures after skin contact | : Take off contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting without medical advice. Obtain emergency medical attention.   |

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

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

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Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Presents no particular fire or explosion hazard.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Scoop absorbed substance into closing containers. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid all eye and skin contact and do not breathe vapour and mist.  
Handling temperature : 5 - 50 °C  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Take off contaminated clothing and wash before reuse.

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

Storage conditions : Keep only in the original container in a cool, well-ventilated place.  
Incompatible products : Strong bases. Strong acids. Oxidation agents.  
Storage temperature : 10 - 30 °C  
Heat and ignition sources : Keep away from heat and direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Personal protective equipment:

Protective clothing. Gloves. Protective goggles.

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### Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

| Type | Material   | Permeation        | Thickness (mm) | Penetration | Standard |
|------|--|-------------------|----------------|-------------|----------|
|      | nitrile rubber (NBR),<br>butyl rubber,<br>Polyvinylchloride<br>(PVC) | 6 (> 480 minutes) | 0.11           |             | EN 374   |

### Eye protection:

Use splash goggles when eye contact due to splashing is possible

| Type               | Use     | Characterizations | Standard |
|--------------------|---------|-------------------|----------|
| Protective goggles | Droplet |                   | EN 166   |

### Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465

### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. EN 143



### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|  |                            |
|--|----------------------------|
| Physical state                             | : Liquid                   |
| Colour                                     | : orange.                  |
| Odour                                      | : characteristic.          |
| Odour threshold                            | : No data available        |
| pH   | : No data available        |
| Relative evaporation rate (butylacetate=1) | : No data available        |
| Melting point                              | : < 0 °C                   |
| Freezing point                             | : No data available        |
| Boiling point                              | : > 100 °C                 |
| Flash point                                | : > 65 °C                  |
| Auto-ignition temperature                  | : No data available        |
| Decomposition temperature                  | : No data available        |
| Flammability (solid, gas)                  | : Non flammable            |
| Vapour pressure                            | : No data available        |
| Relative vapour density at 20 °C           | : > 1                      |
| Relative density                           | : 1,13                     |
| Solubility                                 | : Poorly soluble in water. |
| Log Pow                                    | : No data available        |
| Viscosity, kinematic                       | : No data available        |
| Viscosity, dynamic                         | : No data available        |
| Explosive properties                       | : No data available        |
| Oxidising properties                       | : No data available        |
| Explosive limits                           | : No data available        |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidation agent.

#### 10.6. Hazardous decomposition products

Combustion generates: Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

#### reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)

|               |             |
|---------------|-------------|
| LD50 oral rat | 15000 mg/kg |
|---------------|-------------|

|                    |             |
|--------------------|-------------|
| LD50 dermal rabbit | 23000 mg/kg |
|--------------------|-------------|

#### Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

|               |               |
|---------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
|---------------|---------------|

|                 |              |
|-----------------|--------------|
| LD50 dermal rat | > 2000 mg/kg |
|-----------------|--------------|

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

|                 |             |
|-----------------|-------------|
| LD50 dermal rat | 26800 mg/kg |
|-----------------|-------------|

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

#### Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

|   |                      |
|---|----------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 250 mg/kg bodyweight |
|---|----------------------|

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

|   |                      |
|---|----------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 100 mg/kg bodyweight |
|---|----------------------|

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)

|                                |                            |
|--------------------------------|----------------------------|
| LC50 other aquatic organisms 2 | 96hr 2 mg/l leuciscus idus |
|--------------------------------|----------------------------|

|                |               |
|----------------|---------------|
| EC50 Daphnia 1 | 48hr 1,8 mg/l |
|----------------|---------------|

|               |              |
|---------------|--------------|
| ErC50 (algae) | 72hr 11 mg/l |
|---------------|--------------|

#### Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

|                                |                               |
|--------------------------------|-------------------------------|
| LC50 other aquatic organisms 1 | 96hr 2,54 mg/l leuciscus idus |
|--------------------------------|-------------------------------|

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### Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

|                |               |
|----------------|---------------|
| EC50 Daphnia 1 | 2,55 mg/l     |
| ErC50 (algae)  | 48hr 1,8 mg/l |

### oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

|                                |  |
|--------------------------------|--|
| LC50 other aquatic organisms 1 | 96hr > 5000 mg/l leuciscus idus (OECD 203) |
| EC50 Daphnia 1                 | 48hr 6,07 mg/l OECD 202                    |
| ErC50 (algae)                  | 72hr 843,75 mg/l OECD 201                  |

### 12.2. Persistence and degradability

#### Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

|                               |                                  |
|-------------------------------|----------------------------------|
| Persistence and degradability | not readily degradable in water. |
|-------------------------------|----------------------------------|

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)

|                           |                      |
|---------------------------|----------------------|
| Log Pow                   | 3,77 OECD 107        |
| Bioaccumulative potential | not bioaccumulative. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### DRY FLEX® 4 - Component A

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

| Component                |   |
|--------------------------|---|
| nonylphenol (25154-52-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.  
Ecology - waste materials : Avoid release to the environment.  
European List of Waste (LoW) code : 08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances

## SECTION 14: Transport information





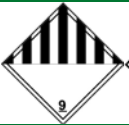
In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG   | IATA   | ADN  | RID   |
|---|--|--|--|---|
| <b>14.1. UN number</b>  |  |  |  |   |
| 3082  | 3082   | 3082   | 3082   | 3082  |
| <b>14.2. UN proper shipping name</b>  |  |  |  |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ; reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ; ) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)) |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ; reaction product: bisphenol-A-  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ;reaction product: bisphenol-A-   |

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| ADR   | IMDG   | IATA  | ADN  | RID   |
|---|--|---|--|---|
| (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) , 9, III, (E) | (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) , 9, III, MARINE POLLUTANT | (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) , 9, III    | (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ; 9, III     | (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700), 9, III       |
| <b>14.3. Transport hazard class(es)</b>   |  |   |  |   |
| 9   | 9  | 9   | 9  | 9   |
|     |                 |  |  |  |
| <b>14.4. Packing group</b>  |  |   |  |   |
| III   | III  | III   | III  | III   |
| <b>14.5. Environmental hazards</b>  |  |   |  |   |
| Dangerous for the environment : Yes   | Dangerous for the environment : Yes<br>Marine pollutant : Yes                                    | Dangerous for the environment : Yes   | Dangerous for the environment : Yes  | Dangerous for the environment : Yes   |
| No supplementary information available  |  |   |  |   |

### 14.6. Special precautions for user

#### - Overland transport

|   |   |
|---|---|
| Classification code (ADR)   | : M6  |
| Special provisions (ADR)  | : 274, 335, 601, 375  |
| Limited quantities (ADR)  | : 5I  |
| Excepted quantities (ADR)   | : E1  |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001   |
| Mixed packing provisions (ADR)  | : MP19  |
| Portable tank and bulk container instructions (ADR)                     | : T4  |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29   |
| Tank code (ADR)   | : LGBV  |
| Vehicle for tank carriage   | : AT  |
| Transport category (ADR)  | : 3   |
| Special provisions for carriage - Packages (ADR)                        | : V12   |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13  |
| Hazard identification number (Kemler No.)                               | : 90  |
| Orange plates   | :  |

Tunnel restriction code (ADR) : E

#### - Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : P001, LP01    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP2, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |
| MFAG-No                           | : 171           |

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### - Air transport

|  |                   |
|--|-------------------|
| PCA Excepted quantities (IATA)               | : E1              |
| PCA Limited quantities (IATA)                | : Y964            |
| PCA limited quantity max net quantity (IATA) | : 30kgG           |
| PCA packing instructions (IATA)              | : 964             |
| PCA max net quantity (IATA)                  | : 450L            |
| CAO packing instructions (IATA)              | : 964             |
| CAO max net quantity (IATA)                  | : 450L            |
| Special provisions (IATA)                    | : A97, A158, A197 |
| ERG code (IATA)                              | : 9L              |

### - Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### - Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)   | : M6                      |
| Special provisions (RID)  | : 274, 335, 375, 601      |
| Limited quantities (RID)  | : 5L                      |
| Excepted quantities (RID)   | : E1                      |
| Packing instructions (RID)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)  | : PP1                     |
| Mixed packing provisions (RID)  | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)  | : LGBV                    |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] (EC 246-672-0, CAS 25154-52-3)

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III) : E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



# DRY FLEX® 4 - Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 16: Other information

Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.

| Section | Changed item   | Change   | Comments |
|---------|--|----------|----------|
| 1.2     | Use of the substance/mixture   | Added    |          |
| 1.2     | Main use category  | Added    |          |
| 1.2     | Industrial/Professional use spec   | Removed  |          |
| 2.1     | Adverse physicochemical, human health and environmental effects            | Added    |          |
| 2.1     | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Added    |          |
| 2.2     | Precautionary statements (CLP)   | Modified |          |
| 3       | Composition/information on ingredients                                     | Modified |          |
| 4.1     | First-aid measures after ingestion   | Modified |          |
| 4.1     | First-aid measures after inhalation  | Modified |          |
| 4.1     | First-aid measures after eye contact                                       | Modified |          |
| 4.1     | First-aid measures after skin contact                                      | Modified |          |
| 4.2     | Symptoms/effects after eye contact   | Added    |          |
| 4.2     | Symptoms/effects after inhalation  | Removed  |          |
| 4.2     | Symptoms/effects after skin contact  | Modified |          |
| 4.3     | Other medical advice or treatment  | Added    |          |
| 5.2     | Hazardous decomposition products in case of fire                           | Added    |          |
| 5.2     | Fire hazard  | Added    |          |
| 6.2     | Environmental precautions  | Modified |          |
| 6.3     | Other information  | Added    |          |
| 6.3     | Methods for cleaning up  | Modified |          |
| 6.4     | Reference to other sections (8, 13)  | Modified |          |
| 7.1     | Handling temperature   | Modified |          |
| 7.1     | Hygiene measures   | Modified |          |
| 7.1     | Precautions for safe handling  | Modified |          |
| 7.2     | Heat and ignition sources  | Added    |          |
| 8.2     | Respiratory protection   | Modified |          |
| 8.2     | Skin and body protection   | Modified |          |
| 8.2     | Hand protection  | Modified |          |
| 8.2     | Personal protective equipment  | Modified |          |
| 9.1     | Appearance   | Added    |          |
| 9.1     | Colour   | Modified |          |
| 9.1     | Odour  | Modified |          |
| 10.1    | Reactivity   | Added    |          |
| 10.2    | Chemical stability   | Modified |          |
| 10.3    | Possibility of hazardous reactions   | Modified |          |
| 10.5    | Incompatible materials   | Modified |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Additional information   | Removed  |          |
| 11.1    | Potential adverse human health   | Removed  |          |

# DRY FLEX® 4 - Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|      | effects and symptoms           |          |  |
|------|--------------------------------|----------|--|
| 12.2 | Persistence and degradability  | Removed  |  |
| 12.3 | Bioaccumulative potential      | Removed  |  |
| 13.1 | Additional information         | Added    |  |
| 13.1 | Waste disposal recommendations | Modified |  |
| 14.6 | Special provisions (ADN)       | Modified |  |
| 14.6 | EAC code                       | Removed  |  |
| 14.6 | Special provisions (ADR)       | Modified |  |
| 16   | Abbreviations and acronyms     | Added    |  |
| 16   | Other information              | Added    |  |
| 16   | Data sources                   | Modified |  |

### Abbreviations and acronyms:

|       |   |
|-------|---|
| SDS   | Safety Data Sheet   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PBT   | Persistent Bioaccumulative Toxic  |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| 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               |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| CAS   | CAS (Chemical Abstracts Service) number   |
|       | EG-nr.: EINECS- en ELINCS-number  |
|       | EINECS: European Inventory of Existing Commercial Substances                                      |
|       | OEL: Occupational Exposure Limit  |

Data sources : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

Other information : REACH Disclaimer:  
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

### Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1   |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                     |
| Repr. 2             | Reproductive toxicity, Category 2                                 |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B                            |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1        | Skin sensitisation, Category 1                                    |
| H302                | Harmful if swallowed  |
| H314                | Causes severe skin burns and eye damage                           |
| H315                | Causes skin irritation  |
| H317                | May cause an allergic skin reaction                               |
| H319                | Causes serious eye irritation                                     |
| H361f               | Suspected of damaging fertility                                   |
| H400                | Very toxic to aquatic life  |
| H410                | Very toxic to aquatic life with long lasting effects              |
| H411                | Toxic to aquatic life with long lasting effects                   |

# DRY FLEX® 4 - Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|        |   |
|--------|---|
| EUH205 | Contains epoxy constituents. May produce an allergic reaction |
|--------|---|

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                   |      |                    |
|-------------------|------|--------------------|
| Skin Irrit. 2     | H315 | Calculation method |
| Eye Irrit. 2      | H319 | Calculation method |
| Skin Sens. 1      | H317 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*



# DRY FLEX® 4 - Component B

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 14-11-2006

Revision date: 31-5-2017

Supersedes: 16-12-2014

Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : DRY FLEX® 4 - Component B

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Elastic repair compound  
Product only to be used in combination with component A.

##### 1.2.2. Uses advised against

No additional information available

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

Repair Care International  
Cartografenweg 34  
5141 MT Waalwijk - Nederland  
T + 31(0) 416 650095 - F + 31(0) 416 652024  
[info@repair-care.com](mailto:info@repair-care.com) - [www.repair-care.com](http://www.repair-care.com)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company  | Address   | Emergency number | Remark  |
|----------------|---|---|------------------|---|
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    | Only for the purpose of informing medical personnel in cases of acute intoxications |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 1B H314  
Skin sensitisation, Category 1 H317  
Reproductive toxicity, Category 2 H361  
Specific target organ toxicity — Repeated exposure, Category 1 H372  
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects. May cause harm to breast-fed children. May damage fertility or the unborn child. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. Harmful if swallowed.

# DRY FLEX® 4 - Component B

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

2-piperazin-1-ylethylamine; 2,4,6-tris(dimethylaminomethyl)phenol; 4-tert-butylphenol; m-phenylenebis(methylamine); Reaction products of di-, tri- and tetra-propoxylyated propane-1,2-diol with ammonia

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H361 - Suspected of damaging fertility or the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P260 - Do not breathe vapours, mist, spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear eye protection, protective gloves, protective clothing, Wear respiratory protection  
P302+P350+P315 - IF ON SKIN : Gently wash with plenty of soap and water. Get immediate medical advice / attention  
P310 - Immediately call a doctor, a POISON CENTER  
P501 - Dispose of contents and container to an approved waste disposal plant

### 2.3. Other hazards

Other hazards not contributing to the classification :

Without VOC (volatile organic compounds).

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|---------------|--|
| Reaction products of di-, tri- and tetra-propoxylyated propane-1,2-diol with ammonia | (CAS-No.) 9046-10-0<br>(EC-No.) 618-561-0<br>(REACH-no) 01-2119557899-12                               | < 50          | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Aquatic Chronic 3, H412  |
| m-phenylenebis(methylamine)  | (CAS-No.) 1477-55-0<br>(EC-No.) 216-032-5<br>(REACH-no) 01-2119480150-50                               | < 30          | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                                 |
| 4-tert-butylphenol   | (CAS-No.) 98-54-4<br>(EC-No.) 202-679-0<br>(EC Index-No.) 604-090-00-8<br>(REACH-no) 01-2119489419-21  | < 30          | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Repr. 2, H361f<br>Aquatic Chronic 1, H410   |
| 2-piperazin-1-ylethylamine   | (CAS-No.) 140-31-8<br>(EC-No.) 205-411-0<br>(EC Index-No.) 612-105-00-4<br>(REACH-no) 01-2119471486-30 | < 30          | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Repr. 2, H361<br>STOT RE 1, H372<br>Aquatic Chronic 3, H412 |
| 2,4,6-tris(dimethylaminomethyl)phenol  | (CAS-No.) 90-72-2<br>(EC-No.) 202-013-9<br>(EC Index-No.) 603-069-00-0<br>(REACH-no) 01-2119560597-27  | < 10          | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Skin Sens. 1, H317   |
| Bis[(dimethylamino)methyl]phenol   | (CAS-No.) 71074-89-0<br>(EC-No.) 275-162-0   | < 3           | Skin Corr. 1B, H314  |

Full text of H-phrases: see section 16

# DRY FLEX® 4 - Component B

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.           |
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.                                   |
| First-aid measures after skin contact | : Wash skin thoroughly with mild soap and water. Remove/Take off immediately all contaminated clothing. Call a physician immediately.                                     |
| First-aid measures after eye contact  | : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting without medical advice. Call a physician immediately.   |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                     |
| Symptoms/effects after ingestion    | : Burns.                                      |

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

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

|  |  |
|--|--|
| Fire hazard                                      | : No fire hazard. Presents no particular fire or explosion hazard.           |
| Hazardous decomposition products in case of fire | : For further information, refer to section 10 : "Stability and Reactivity". |

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |
| Other information              | : Prevent fire fighting water from entering the environment.  |

### SECTION 6: Accidental release measures

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

|                  |                                 |
|------------------|---------------------------------|
| General measures | : Provide adequate ventilation. |
|------------------|---------------------------------|

##### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Emergency procedures | : Evacuate unnecessary personnel. Do not breathe vapours, mist, spray. Only qualified personnel equipped with suitable protective equipment may intervene. |
|----------------------|--|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area.   |

#### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

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

|                         |   |
|-------------------------|---|
| For containment         | : Collect spillage.   |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Sweep or shovel spills into appropriate container for disposal. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

# DRY FLEX® 4 - Component B

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Concerning personal protective equipment to use, see item 8. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Do not breathe vapours, mist, spray. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

- Storage conditions : Avoid extremely high (> 50 ° C) or low (<5 ° C) temperatures. Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up.
- Incompatible products : acids.
- Storage temperature : 20 °C ± 10°C
- Heat and ignition sources : Keep away from heat and direct sunlight.

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

Industrial. Professional.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations. Ensure good ventilation of the work station.

##### Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Wear respiratory protection.

##### Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

| Type                                  | Material  | Permeation        | Thickness (mm) | Penetration | Standard |
|---------------------------------------|---|-------------------|----------------|-------------|----------|
| Disposable gloves,<br>Reusable gloves | nitrile rubber (NBR),<br>Polyvinylchloride<br>(PVC) | 6 (> 480 minutes) | ≥0,11          |             | EN 374   |

##### Eye protection:

Protective goggles. DIN EN 166

##### Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465

##### Respiratory protection:

Wear respiratory protection. EN 143

| Device                          | Filter type | Condition   | Standard |
|---------------------------------|-------------|---|----------|
| breathing apparatus with filter | Type P2     | Vapour protection, Protection for<br>Liquid particles | EN 143   |



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### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|  |  |
|--|--|
| Physical state                             | : Liquid                                   |
| Colour                                     | : Colourless.                              |
| Odour                                      | : characteristic.                          |
| Odour threshold                            | : No data available                        |
| pH   | : No data available                        |
| Relative evaporation rate (butylacetate=1) | : No data available                        |
| Melting point                              | : < 0 °C                                   |
| Freezing point                             | : No data available                        |
| Boiling point                              | : > 100 °C                                 |
| Flash point                                | : > 62 °C                                  |
| Auto-ignition temperature                  | : No data available                        |
| Decomposition temperature                  | : No data available                        |
| Flammability (solid, gas)                  | : Non flammable                            |
| Vapour pressure                            | : No data available                        |
| Relative vapour density at 20 °C           | : > 1 (air=1)                              |
| Relative density                           | : 1,05                                     |
| Solubility                                 | : In water, material is partially soluble. |
| Log Pow                                    | : No data available                        |
| Viscosity, kinematic                       | : No data available                        |
| Viscosity, dynamic                         | : No data available                        |
| Explosive properties                       | : No data available                        |
| Oxidising properties                       | : No data available                        |
| Explosive limits                           | : No data available                        |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

Avoid extremely high (> 50 ° C) or low (<5 ° C) temperatures. Keep away from heat and direct sunlight.

### 10.5. Incompatible materials

acids.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                               |
|-----------------------------|-------------------------------|
| Acute toxicity (oral)       | : Oral: Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified              |
| Acute toxicity (inhalation) | : Not classified              |

|          |                      |
|----------|----------------------|
| ATE oral | 770 mg/kg bodyweight |
|----------|----------------------|



# DRY FLEX® 4 - Component B

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)

|                    |            |
|--------------------|------------|
| LD50 oral rat      | 480 mg/kg  |
| LD50 dermal rabbit | 2090 mg/kg |

### m-phenylenebis(methylamine) (1477-55-0)

|                            |                   |
|----------------------------|-------------------|
| LD50 oral rat              | 930 mg/kg (Rat)   |
| LC50 inhalation rat (mg/l) | 2,4 mg/l/4h (Rat) |

### 2-piperazin-1-ylethylamine (140-31-8)

|                    |            |
|--------------------|------------|
| LD50 oral rat      | 2140 mg/kg |
| LD50 dermal rat    | 2250 ml/kg |
| LD50 dermal rabbit | 866 mg/kg  |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.                        |
| Serious eye damage/irritation     | : Serious eye damage, category 1, implicit                        |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                            |
| Germ cell mutagenicity            | : Not classified  |
| Carcinogenicity                   | : Not classified  |
| Reproductive toxicity             | : Suspected of damaging fertility or the unborn child.            |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                 | : Not classified  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |  |
|--------------------------|--|
| Ecology - general        | : Toxic to aquatic life with long lasting effects. |
| Acute aquatic toxicity   | : Not classified                                   |
| Chronic aquatic toxicity | : Toxic to aquatic life with long lasting effects. |

### Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)

|                    |            |
|--------------------|------------|
| LC50 fishes 1      | > 100 mg/l |
| EC50 Daphnia 1     | 15 mg/l    |
| EC50 72h algae (1) | 135 mg/l   |

### m-phenylenebis(methylamine) (1477-55-0)

|                         |                         |
|-------------------------|-------------------------|
| LC50 fish 2             | > 100 mg/l (LC50; 96 h) |
| EC50 Daphnia 1          | 16 mg/l (EC50; 48 h)    |
| Threshold limit algae 1 | 12 mg/l (EC50; 72 h)    |

### 12.2. Persistence and degradability

#### DRY FLEX® 4 - Component B

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

### Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Biodegradability in soil: no data available. |
|-------------------------------|--|

### m-phenylenebis(methylamine) (1477-55-0)

|                               |                                  |
|-------------------------------|----------------------------------|
| Persistence and degradability | not readily degradable in water. |
|-------------------------------|----------------------------------|

### 12.3. Bioaccumulative potential

#### DRY FLEX® 4 - Component B

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

### Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

### m-phenylenebis(methylamine) (1477-55-0)

|                           |  |
|---------------------------|--|
| BCF fish 1                | < 2,7 (BCF)                                      |
| Log Pow                   | 0,15   |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

#### DRY FLEX® 4 - Component B

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.






Additional information : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG  | IATA   | ADN  | RID  |
|---|---|--|--|--|
| <b>14.1. UN number</b>  |   |  |  |  |
| 2735  | 2735  | 2735   | 2735   | 2735   |
| <b>14.2. UN proper shipping name</b>  |   |  |  |  |
| AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))   | AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))   | AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE))  | AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))  | AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))  |
| UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III, (E), ENVIRONMENTALLY HAZARDOUS | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE)), 8, III, ENVIRONMENTALLY HAZARDOUS | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III, ENVIRONMENTALLY HAZARDOUS | UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III, ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>   |   |  |  |  |
| 8   | 8   | 8  | 8  | 8  |
|                               |    |                         |                        |                       |
| <b>14.4. Packing group</b>  |   |  |  |  |
| III   | III   | III  | III  | III  |
| <b>14.5. Environmental hazards</b>  |   |  |  |  |
| Dangerous for the environment : Yes   | Dangerous for the environment : Yes<br>Marine pollutant : Yes   | Dangerous for the environment : Yes  | Dangerous for the environment : Yes  | Dangerous for the environment : Yes  |
| No supplementary information available  |   |  |  |  |

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C7

Special provisions (ADR) : 274

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions (ADR) : TP1, TP28

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Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2X  
APP code : B

### - Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
Segregation (IMDG) : SG35  
Properties and observations (IMDG) : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.  
MFAG-No : 153

### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 8L

### - Inland waterway transport

Classification code (ADN) : C7  
Special provisions (ADN) : 274  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

### - Rail transport

Classification code (RID) : C7  
Special provisions (RID) : 274  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19

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|   |             |
|---|-------------|
| Portable tank and bulk container instructions (RID)       | : T7        |
| Portable tank and bulk container special provisions (RID) | : TP1, TP28 |
| Tank codes for RID tanks (RID)                            | : L4BN      |
| Transport category (RID)                                  | : 3         |
| Special provisions for carriage – Packages (RID)          | : W12       |
| Colis express (express parcels) (RID)                     | : CE8       |
| Hazard identification number (RID)                        | : 80        |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III) : E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.

| Section | Changed item  | Change   | Comments |
|---------|---|----------|----------|
| 1.2     | Use of the substance/mixture                                    | Modified |          |
| 1.2     | Main use category   | Added    |          |
| 1.2     | Industrial/Professional use spec                                | Removed  |          |
| 2.1     | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |          |
| 2.1     | Adverse physicochemical, human health and environmental effects | Added    |          |
| 2.2     | Precautionary statements (CLP)                                  | Modified |          |
| 2.2     | Hazard pictograms (CLP)   | Modified |          |
| 2.2     | Hazard statements (CLP)   | Modified |          |
| 2.2     | R-phrases   | Removed  |          |
| 2.2     | Hazard symbols  | Removed  |          |
| 3       | Composition/information on ingredients                          | Modified |          |
| 4.1     | First-aid measures after ingestion                              | Modified |          |
| 4.1     | First-aid measures after eye contact                            | Modified |          |
| 4.1     | First-aid measures after skin contact                           | Modified |          |
| 4.1     | First-aid measures after inhalation                             | Modified |          |
| 4.2     | Symptoms/effects after inhalation                               | Removed  |          |
| 4.2     | Symptoms/effects after skin contact                             | Modified |          |
| 4.2     | Symptoms/effects after ingestion                                | Removed  |          |
| 4.2     | Symptoms/effects  | Removed  |          |
| 4.3     | Other medical advice or treatment                               | Added    |          |

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|      |   |          |  |
|------|---|----------|--|
| 5.2  | Hazardous decomposition products in case of fire    | Added    |  |
| 5.2  | Fire hazard   | Modified |  |
| 6.1  | Protective equipment                                | Modified |  |
| 6.1  | Emergency procedures                                | Modified |  |
| 6.2  | Environmental precautions                           | Modified |  |
| 6.3  | Other information                                   | Added    |  |
| 6.3  | For containment                                     | Added    |  |
| 6.3  | Methods for cleaning up                             | Modified |  |
| 6.4  | Reference to other sections (8, 13)                 | Modified |  |
| 7.1  | Precautions for safe handling                       | Modified |  |
| 7.1  | Hygiene measures                                    | Modified |  |
| 7.2  | Incompatible products                               | Modified |  |
| 7.2  | Storage conditions                                  | Modified |  |
| 7.2  | Heat and ignition sources                           | Added    |  |
| 7.2  | Technical measures                                  | Removed  |  |
| 7.2  | Incompatible materials                              | Removed  |  |
| 7.3  | Specific end uses                                   | Modified |  |
| 8.2  | Skin and body protection                            | Modified |  |
| 8.2  | Eye protection                                      | Modified |  |
| 8.2  | Hand protection                                     | Modified |  |
| 8.2  | Personal protective equipment                       | Modified |  |
| 8.2  | Environmental exposure controls                     | Added    |  |
| 8.2  | Appropriate engineering controls                    | Modified |  |
| 8.2  | Respiratory protection                              | Modified |  |
| 9.1  | Relative vapour density at 20 °C                    | Modified |  |
| 9.1  | Relative density                                    | Modified |  |
| 10.1 | Reactivity  | Modified |  |
| 10.2 | Chemical stability                                  | Modified |  |
| 10.3 | Possibility of hazardous reactions                  | Modified |  |
| 10.4 | Conditions to avoid                                 | Modified |  |
| 10.6 | Hazardous decomposition products                    | Removed  |  |
| 11.1 | ATE dust/mist                                       | Removed  |  |
| 11.1 | ATE dermal  | Removed  |  |
| 11.1 | ATE oral  | Modified |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Additional information                              | Removed  |  |
| 11.1 | Potential adverse human health effects and symptoms | Removed  |  |
| 12.1 | Ecology - general                                   | Added    |  |
| 12.1 | Ecology - water                                     | Removed  |  |
| 12.2 | Persistence and degradability                       | Modified |  |
| 13.1 | Additional information                              | Added    |  |
| 13.1 | Waste disposal recommendations                      | Modified |  |
| 16   | Abbreviations and acronyms                          | Added    |  |
| 16   | Data sources  | Modified |  |

### Abbreviations and acronyms:

|       |   |
|-------|---|
| SDS   | Safety Data Sheet   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PBT   | Persistent Bioaccumulative Toxic  |
| vPvB  | Very Persistent and Very Bioaccumulative  |
| 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               |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |

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|      |  |
|------|--|
| RID  | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| LC50 | Median lethal concentration  |
| LD50 | Median lethal dose   |
| CAS  | CAS (Chemical Abstracts Service) number                                      |
|      | EG-nr.: EINECS- en ELINCS-number   |
|      | EINECS: European Inventory of Existing Commercial Substances                 |
|      | OEL: Occupational Exposure Limit   |

Data sources : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

Other information : REACH Disclaimer:  
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 1         | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2         | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3         | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                     |
| Repr. 2                   | Reproductive toxicity, Category 2                                 |
| Repr. 2                   | Reproductive toxicity, Category 2                                 |
| Skin Corr. 1B             | Skin corrosion/irritation, Category 1B                            |
| Skin Corr. 1C             | Skin corrosion/irritation, Category 1C                            |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1              | Skin sensitisation, Category 1                                    |
| STOT RE 1                 | Specific target organ toxicity — Repeated exposure, Category 1    |
| H302                      | Harmful if swallowed  |
| H311                      | Toxic in contact with skin  |
| H314                      | Causes severe skin burns and eye damage                           |
| H315                      | Causes skin irritation  |
| H317                      | May cause an allergic skin reaction                               |
| H318                      | Causes serious eye damage   |
| H332                      | Harmful if inhaled  |
| H361                      | Suspected of damaging fertility or the unborn child               |
| H361f                     | Suspected of damaging fertility                                   |
| H372                      | Causes damage to organs through prolonged or repeated exposure    |
| H410                      | Very toxic to aquatic life with long lasting effects              |
| H411                      | Toxic to aquatic life with long lasting effects                   |
| H412                      | Harmful to aquatic life with long lasting effects                 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                     |      |                    |
|---------------------|------|--------------------|
| Acute Tox. 4 (Oral) | H302 | Calculation method |
| Skin Corr. 1B       | H314 | Calculation method |
| Skin Sens. 1        | H317 | Calculation method |
| Repr. 2             | H361 | Calculation method |
| STOT RE 1           | H372 | Calculation method |
| Aquatic Chronic 2   | H411 | Calculation method |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*