



# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 13-05-2014

Revision date: 15-12-2014

Supersedes: 11-01-2013

Version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture  
Name : DRY FLEX<sup>®</sup> SF Component A

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

Repair Care  
Cartografenweg 34  
5140 AG 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
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No. 1272/2008 [CLP] Show CLP information + DPD classification in section 2.1

Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Skin Sens. 1 H317  
Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

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

Xi; R36/38  
R43  
N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients :

oxirane, mono[(C12-14-alkyloxy)methyl] derivs., Bisphenol-F-epichlorohydrin epoxy resin  
average molecular weight ≤ 700, reaction product: bisphenol-A-(epichlorohydrin), epoxy resin  
(number average molecular weight ≤ 700)

Hazard statements (CLP) :

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P261 - Avoid breathing vapours  
P264 - Wash hands and forearms thoroughly after handling

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection

P302+P352 - IF ON SKIN: Wash with plenty of Water and soap.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	(CAS No) 25068-38-6 (EC no) 500-033-5 (EC index no) 603-074-00-8	25 - 50	Xi; R36/38 R43 N; R51/53
Bisphenol-F-epichlorohydrin epoxy resin average molecular weight $\leq$ 700	(CAS No) 9003-36-5 (EC no) 500-006-8 (REACH-no) 01-2119454392-40	10 - 25	Xi; R38 R43 N; R51/53
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	(CAS No) 68609-97-2 (EC no) 271-846-8 (EC index no) 603-103-00-4	5 - 10	Xi; R38 R43

Name	Product identifier	Specific concentration limits
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	(CAS No) 25068-38-6 (EC no) 500-033-5 (EC index no) 603-074-00-8	(C $\geq$ 5) Xi; R36/38

Name	Product identifier	%	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 (EC no) 500-033-5 (EC index no) 603-074-00-8	25 - 50	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Bisphenol-F-epichlorohydrin epoxy resin average molecular weight $\leq$ 700	(CAS No) 9003-36-5 (EC no) 500-006-8 (REACH-no) 01-2119454392-40	10 - 25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	(CAS No) 68609-97-2 (EC no) 271-846-8 (EC index no) 603-103-00-4	5 - 10	Skin Irrit. 2, H315 Skin Sens. 1, H317

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

Full text of R- and 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	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. If skin irritation or rash occurs: Ask for medical advice.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

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

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 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 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 personnel to a safe area.

#### 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. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

Exposure controls and personal protection. Refer to chapter 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing vapors.

Handling temperature : 50 - 5 °C

Hygiene measures : Avoid all eye and skin contact and do not breathe vapour and mist. 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

### 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 : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Use splash goggles when eye contact due to splashing is possible.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

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 : yellow beige. Colourless.

Odour : characteristic. characteristic.

Odour threshold : No data available

pH : No data available

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < 0 °C
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: > 93 °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	: 1,44
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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Bisphenol-F-epichlorohydrin epoxy resin average molecular weight ≤ 700 (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
-----------------	-------------

#### 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

Skin corrosion/irritation	: Causes skin irritation. Causes skin irritation
Serious eye damage/irritation	: Causes serious eye irritation. Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: May cause an allergic skin reaction. May cause an allergic skin reaction
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met

### Bisphenol-F-epichlorohydrin epoxy resin average molecular weight ≤ 700 (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  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified  
Based on available data, the classification criteria are not met

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

NOAEL (dermal, rat/rabbit)	100 mg/kg bodyweight
----------------------------	----------------------

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Bisphenol-F-epichlorohydrin epoxy resin average molecular weight ≤ 700 (9003-36-5)

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

EC50 Daphnia 1	48hr 2,55
----------------	-----------

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
---------------	---------------------------

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

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

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

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

### 12.2. Persistence and degradability

#### DRY FLEX<sup>®</sup> SF Component A

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

#### Bisphenol-F-epichlorohydrin epoxy resin average molecular weight ≤ 700 (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

#### DRY FLEX<sup>®</sup> SF Component A

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

#### 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

No additional information available

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### 12.6. Other adverse effects

: Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant.

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

### 14.1. UN number

UN-No. (ADR) : 3082

UN-No. (IMDG) : 3082

UN-No.(IATA) : 3082

UN-No.(ADN) : Not applicable

UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-F-epichlorohydrin epoxy resin average molecular weight  $\leq$  700, reaction product: bisphenol-A-(epichlorohydrin), epoxy resin (number average molecular weight  $\leq$  700))

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-F-epichlorohydrin epoxy resin average molecular weight  $\leq$  700, reaction product: bisphenol-A-(epichlorohydrin), epoxy resin (number average molecular weight  $\leq$  700))

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-F-epichlorohydrin epoxy resin average molecular weight  $\leq$  700, reaction product: bisphenol-A-(epichlorohydrin), epoxy resin (number average molecular weight  $\leq$  700))

Proper Shipping Name (ADN) : Not applicable

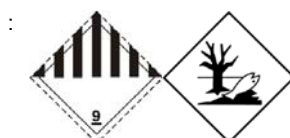
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9

Hazard labels (ADR) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9



#### IATA

Transport hazard class(es) (IATA) : 9



#### ADN

Transport hazard class(es) (ADN) : Not applicable

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



### RID

Transport hazard class(es) (RID) : 9  
Danger labels (RID) : 9



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

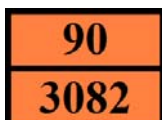
### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR) : M6  
Special provision (ADR) : 274, 335, 601  
Limited quantities (ADR) : 5L  
Excepted quantities (ADR) : E1  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 90  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : •3Z

#### 14.6.2. Transport by sea

Special provisions (IMDG) : 274, 335  
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

#### 14.6.3. Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964

# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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
ERG code (IATA)	: 9L

### 14.6.4. Inland waterway transport

Not subjected to ADN : No

### 14.6.5. Rail transport

Classification code (RID) : M6  
Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions  
Contains no REACH candidate substance

#### 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:

The classification of the product (according to EU regulations) has been altered.

	Supersedes	Added	
	Date of issue	Modified	
	For mixture	Modified	
1.1	Product form	Added	
2.1	Classification according to Directive 67/548/EEC or 1999/45/EC	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	S-phrases	Modified	
2.3	PBT	Added	
12.5	PBT	Added	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Without VOC (volatil organic compounds).

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R43	May cause sensitisation by skin contact



# DRY FLEX<sup>®</sup> SF Component A

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xi	Irritant

SDS EU (REACH Annex II)

*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*