

SAFETY DATA SHEET

conform 1907/2006/EG

Date of issue: 4 November 2010, version 2
Commercial product name: DRY FLEX[®] 1 B
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1. Identification of the substance / preparation and the company / undertaken.

Product name and code: DRY FLEX[®] 1 B
Material uses: Component of elastic repair compound.
Identification company: Repair Care International B.V.
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5141MT Waalwijk
The Netherlands
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5140 AG Waalwijk
The Netherlands
Tel: + 31(0) 416 650095
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E - mail: info@repair-care.com
URL: www.repair-care.com
Emergency telephone number: England & Wales – NHS Direct (24 hours), tel. 0845 46 47
www.nhsdirect.nhs.uk
Scotland – NHS 24 (24 hours), tel. 08454 24 24 24
www.nhs24.co.uk

2. Hazard identification.

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EEC and its amendments.

The material can cause sensitisation and irritation to the skin, prolonged or repeated exposure can reinforce this impact. Long-term exposure by inhalation of large quantities of dust of this product or the end product can cause lung damage.

3. Composition / information on ingredients.

Substance / preparation:	Preparation.			
Ingredient	% weight	danger	CAS#	EC#
Polymercaptan	< 90	-	101359-87-9	polymer
2,4,6-Tri(dimethylaminomethyl)phenol	< 10	Xn; R22 Xi; R36/38	90-72-2	202-013-9
Silicon dioxide	< 10	-	7631-86-9	231-545-4
Bis[(dimethylamino)methyl]phenol	< 1	-	71074-89-0	275-162-0

The full text of each relevant R phrase can be found in heading 16.

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4. First – aid measures.

General:	In the event of an accident or when feeling unwell consult a physician without delay.
Eye contact:	Exposure causes irritation to the eyes. Remove contact lenses, and rinse with water while keeping the eyelids open for at least 15 minutes. Assist the victim with rinsing. Consult an optometrist.
Skin contact:	Rinse immediately with plenty of water (at least 15 minutes) and then wash with water and soap, if available. Take a shower if necessary. Consult a dermatologist.
Swallowing:	Provided the patient is conscious, rinse mouth with water and drink minimum 2 glasses of water. DO NOT induce patient to vomit. Obtain immediate medical assistance or take the victim directly to the hospital. The person should be placed and kept in the recovery position if unconscious.
If aerosol or vapour is inhaled in high concentrations:	Take the person into the fresh air and keep him/her warm. Allow the person to rest in a semi-seated position. Consult a physician. Administer if necessary supplemental oxygen.
Further medical treatment:	Symptomatic treatment and supportive therapy as prescribed.

5. Fire – fighting measures.

Suitable extinguishing media:	CO ₂ , (alcohol resistant) foam, dry powder, water spray or sand should be used. Never use direct water jet. Prevent washings from entering the sewer system.
Unusual fire/explosion hazards:	Not flammable. Fire will produce dense black smoke containing hazardous products of combustion. Decomposition products may be a hazard to health. Combustion products may include carbon monoxide, carbon dioxide, hydrogen sulfide and sulphur oxide. Evacuate the area except first aid staff.
Special protective equipment for fire fighters:	Self contained breathing apparatus and full protective clothing to be worn under fire fighting conditions. Only use qualified personnel who are well aware of the dangers of this product. Acid resistant protective equipment must be worn in the vicinity of the fire. Clean the equipment thoroughly after use (shower, clean and check clothing thoroughly).

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6. Accidental release measures.

Personal precautions:	Ensure acid protective clothing and respiratory protection (including self-contained breathing apparatus) is worn when cleaning up spillage. Ventilate and evacuate the area.
Environmental precautions:	Do not discharge as a concentrate into drains, sewers or surface water. Construct a dike to prevent spreading.
Cleaning methods:	Contain spill with sand, ground or other non-flammable absorption material. Collect the waste product in suitable drums for disposal.

7. Handling and storage.

Handling:	When handling observe the usual precautionary measures for chemicals. Blend the product on a stable place and prevent spill of the product during processing. Good housekeeping standards and regular safe removal of waste materials will minimize risks.		
Storage:	Keep container tightly closed in a cool and well ventilated place. Keep separated from foodstuffs and animal foods. Prevent product temperatures rising above 50 °C and under 5 °C.		
	Storage material:	- suitable:	Original packaging, plastic.
		- unsuitable:	-
	Storage temperature:	Recommended storage temperature 20 ± 10 °C.	

8. Exposure controls / personal protection.

Exposure limits.

Ingredient name	Occupational exposure limits TWA (8 hrs.) in mg / m ³			
	MAC (UK)	NIOSH (US)	Other	Remark
Silicon dioxide	-	6	-	respirable fraction

Personal protection: Do not smoke, eat or drink whilst working. Wear suitable protective clothing (preferably plasticized cotton or an apron). Eating, drinking and smoking are prohibited in areas where this material is handled and stored.

Respiratory protection: Adequate ventilation (ventilation factor > 1), if possible supported with suction at the source.

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8. Exposure controls / personal protection (continue).

Skin and body:



Wear suitable protective clothing (preferably an apron in combination with in combination with work sleeves and overall or protecting clothing for once-only use), gloves and eye/face protection. Remove contaminated clothing immediately. Keep working clothes separate (on location e.g. in a closed plastic bag) and change daily. Cotton as working clothes is because of penetrability less preferable, use cotton in combination with a plastic protection. Inform at the clothing supplier to the breakthrough time for epoxy products.

Hands:



Wash hands well before breaks and at the end of work. Gloves should be worn to avoid contact with skin. For repeated or long term use, use gloves made from nitrile rubber or neoprene. Do not use vinyl, cotton or natural rubber.

Eyes:



Chemical safety glasses (also if small quantities are processed). Eyewash fountain must be nearby (if possible). Full face shield if splashing may occur.

9. Physical and chemical properties.

General information.

Appearance: Liquid.
Colour: Grey white.
Odour: Characteristic, like sulphur.

Important health, safety and environmental information

pH: Not available.
Boiling point: > 100 °C.
Solidification point: < 0 °C.
Flash point: > 62 °C.
Explosive properties: Not available.
Vapour pressure: Not available.
Relative density: 1,2 (water = 1).
Solubility in water: Slightly soluble.
Viscosity: Not available.
Vapour density: > 1 (air = 1).
Evaporation rate: Slower than ether.

10. Stability and reactivity.

Stability: Stable at room temperature. Exothermic reactions possible with oxidisers, strong acids or strong alkaline materials.
Conditions to avoid: Avoid high (> 50 °C) and low (< 5 °C) temperatures.
Materials to avoid: Oxidisers, strong acids and alkaline materials.
Hazardous decomposition products: Unlikely under normal industrial use and at operating temperatures. In case of a fire carbon monoxide, carbon dioxide, hydrogen sulfide and sulphur oxide.

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11. Toxicological information.

Acute toxicity from the components:

Product information:	Polymercaptan.
LD ₅₀ (oral, rat):	2,6 g / kg.
LD ₅₀ (dermal, rabbit):	> 10,2 g / kg.
Eye irritation (rabbit):	16,8 (scale 0 - 110).
Skin irritation (rabbit):	1,2 (scale 0 - 8).
Skin irritation (guinea pig):	negative.
Product information:	2,4,6-Tri(dimethylaminomethyl)phenol.
LD ₅₀ (oral, rat):	1.673 mg / kg.
LD ₅₀ (dermal, rabbit):	1.242 mg / kg.
Product information:	Silicon dioxide.
LD ₅₀ (oral, rat):	> 5.000 mg / kg.
LD ₅₀ (dermal, rabbit):	> 2.000 mg / kg.

The following health hazard assessment is based on an assessment of the composition of this product.

Effects on the eyes:	Reddening, pain, permanent damage eventually blindness.
Effects on the skin:	Contact with the preparation may result in contact eczema, sensitisation, skin cracking and swelling. Prolonged or repeated exposure in combination with other epoxy products may damage the skin and may cause irritation eczema. Contains reaction product polycaptan from which is known that it can lead to allergic contact dermatitis.
Effect on the respiratory organs:	Irritation of mucous membranes and respiratory tract. Contains silicon dioxide, prolonged/repeated inhalation of respirable crystalline silica dust may cause (delayed) lung injury.
Ingestion:	Swallowing can lead to irritation of the gastrointestinal tract.

Preparation contains no volatile organic compounds (VOC components), according to the criteria of the directive on VOC products (EU directive 1999/13). A volatile organic compound (VOC) mean any organic compound having at 293,15 K a vapour pressure of 0,01 kPa or more, or having a corresponding volatility under the particular conditions of use.

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12. Ecological information.

Ecotoxicity from the components.

Product information:	2,4,6-Tri(dimethylaminomethyl)phenol.
LC ₅₀ (fish, rainbow trout):	222 mg / l (24 hrs.), oncorhynchus mykiss.
LC ₁₀₀ (fish, rainbow trout):	240 mg / l (96 hrs.), oncorhynchus mykiss.
LC ₀ (fish, rainbow trout):	180 mg / l (96 hrs.), oncorhynchus mykiss.
LC ₅₀ (fish, carp):	249 mg / l (24 hrs.), cyprinus carpio.
LC ₅₀ (fish, carp):	175 mg / l (96 hrs.), cyprinus carpio.
EC ₁₀ :	718 mg / l (96 hrs.).
Product information:	Silicon dioxide.
LC ₅₀ (fish, brachydanio rerio):	> 10 mg / l (96 hrs.).
EC ₀ (daphnia):	> 10 mg / l (24 hrs.).

Mobility:	The product is only for a slightly soluble in water.
Persistence / degradability:	No data.
Bioaccumulation:	No data.
Other harmful effects:	No data.

WGK: 2 (Wassergefährdungsklasse or water pollution class, German Water Resources Act., water pollutant).

13. Disposal considerations.

Product waste:	Incinerate in a hazardous waste incinerator suitable for the disposal of noxious chemical waste in accordance with the stipulations of the relevant regulations. Waste generation should be avoided or minimised where ever possible. If this is not possible, destruction must take place in an approved facility which is equipped to absorb and neutralise acid gasses and other toxic processing products. Waste, even small quantities, should never be poured down drains, sewers or water surfaces.
Eural waste disposal code:	08 04 09* (Waste adhesives and sealants containing organic solvents or other dangerous substances).
Empty containers:	May be reconditioned only after the contents have been completely removed.

14. Transport information.

Not classified as dangerous for transport.

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15. Regulatory information.

EG classification.

EG hazard symbol: -
Hazard description: -
R – (risk) phrases: -
S – (safety) phrases: S2 Keep out of the reach of children.

WGK: 2 (Hazard to water, German regulation).
Additional warning: Contains 2,4,6-tri(dimethylaminomethyl)phenol (index number 603-069-00-0).
VOC content: Contains none, or almost none, volatile organic compounds.

16. Other information.

List of relevant R - phrases referred to under headings 2 and 3:
R22 - Harmful if swallowed.
R36/38 - Irritating to eyes and skin.

History: Date of printing: 4 November 2010.
Date of previous issue: 22 December 2006.
Version: 2.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the properties of the product. It is always the duty of users to determine the applicability of such information and recommendations and the suitability of any products for their own particular purpose.

Safety data sheet according regulation (EC) No 1907/2006 of the European parliament and of the council from 18 December 2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

DRY FLEX® is a trademark of Repair Care International B.V. .