

Safety data sheet

DRYflex Part B

Hardener

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING




1.1 PRODUCT IDENTIFIER	Commercial Product Name:	DRYflex Part B
	Product type:	Sodium Persulfate
	Number CAS:	7775-27-1
	Number EC:	231-892-1
	Registration number	01-2119495975-15-XXXX
1.2 RELEVANT USES IDENTIFIED OF THE SUBSTANCE OR MIXTURE AND USES NOT RECOMMENDED	Application of the substance / the preparation	Industrial use Oxidizing agent Polymerization catalyst
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to the directive CE 1272/2008 (CLP):	The product is not considered dangerous according to the EC directive 1272/2008 (CLP)
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2.2 LABEL ELEMENTS

Labeling according to the regulation (CE) n. 1272/2008
Hazard pictograms:

		
GHS03 Can aggravate a fire; oxidizing.	GHS07 Signal word Danger	GHS08 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Hazard statement:

H272 Can aggravate a fire; oxidizing.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 It can irritate the respiratory tract.

Precautionary advice:

P221 Take every precaution to avoid mixing with combustible substances.
 P210 Keep away from heat / sparks / open flames / heated surfaces. - Not smoking.
 P220 Keep / Store away from clothing / combustible materials.
 P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
 P305+P351+P338
 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of the product / container in accordance with local / regional / national / international regulations.

2.3 OTHER DANGERS

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

This product is not a substance.

3.2 MIXTURES

Chemical characterization: *Sodium persulfate based blend*

DANGEROUS INGREDIENTS

Ingredient	Sodium persulfate
No. CAS	7775-27-1
No.CE.:	231-892-1

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<i>Classification according to Regulation (CE) 1272/2008:</i>	Ox. Sol. 3;	H272
	Acute Tox. 4;	H302
	Skin Irrit. 2;	H315
	Skin Sens. 1;	H317
	Eye Irrit. 2;	H319
	Resp. Sens. 1;	H334
	STOT SE 3;	H335

<i>Concentration by weight</i>	60.0 - 70.0 %
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4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General indications:

Immediately remove clothing contaminated by the product.
Remove the people to be rescued from the danger area and lay down on the ground.

Inhalation:



Take the person to a well ventilated area and consult a doctor for safety.

If the subject is unconscious, arrange to keep him in a stable position on his side during transport.

Skin contact:



Wash immediately with soap and water and rinse thoroughly.

Consult your doctor immediately.

Eye contact:



Wash with running water for several minutes holding the eyelids wide open and consult your doctor.

Ingestion:



Rinse your mouth and drink plenty of water.

Do not induce vomiting, call a doctor immediately.

4.2 MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Malaise Headache
Skin irritation
Eye irritation
Breathing difficulty
Respiratory tract irritation

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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No other information available.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA	<i>Suitable extinguishing media</i>	Nebulized water
	<i>Unsuitable extinguishing media for safety reasons:</i>	Water jets.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE		If heated or in the event of a fire, the product may develop toxic fumes.
	<i>Specific protective means:</i>	Wear self-powered respirator. Wear full protective suits.
	<i>Other indications</i>	The product is oxidizing. Cool containers at risk with water spray. Collect the contaminated water used for extinguishing, absolutely do not convey it into the sewer system.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	<i>Individual precautions:</i>	Wear protective gear. Keep unequipped people away. Keep people away and stay on the side protected from the wind. Ensure adequate ventilation.
6.2 ENVIRONMENTAL PRECAUTIONS		Prevent infiltration into the sewer / surface water / ground water. In the event of infiltration into bodies of water or sewers, notify the competent authorities.
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP		Collect by mechanical means. Make for recovery or disposal in suitable tanks. Carefully clean up the accident site. For this operation are indicated: abundant water. Provide sufficient ventilation.

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6.4. REFERENCE TO OTHER SECTIONS For information on personal protective equipment see Chapter 8. For information on disposal see Chapter 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING Accurate ventilation / extraction in the workplace. Avoid the formation of dust.

Advice in case of fire and explosion: Keep away from sources of ignition and heat, do not smoke.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage

Requirements of warehouses and containers: Store in tightly closed drums. T<30 °C

Notes on mixed storage: Do not store in contact with flammable substances.

Additional information relating to storage conditions: Do not store in contact with food. Store away from combustible substances.

7.3. SPECIAL END USES No other information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 CONTROL PARAMETERS Components with limit values that require monitoring at the workplace Not applicable

8.2 EXPOSURE CONTROLS Adequate engineering controls: Limit the formation of dust
Accurate ventilation / extraction in the workplace.

Individual protective means: Observe the usual safety measures when handling chemicals. Immediately remove contaminated clothing.
Wash your hands before breaks or after work.
Avoid contact with eyes and skin. Keep away from food, drink and fodder.

General protective and occupational hygiene rules: Safety glasses with side shields.

Protective mask: Wear a protective dust mask P2 (APF 10).
Use respirators in the presence of high concentration levels.
Filter: ABEK

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<i>Protective Gloves:</i>	Use protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation.
<i>Glove material:</i>	Butyl rubber Recommended material thickness: ≥ 0.5 mm. The selection of the suitable gloves does not only depend on the material but also on other quality characteristics which vary from manufacturer to manufacturer.
<i>Breakthrough time of glove material:</i>	Break through time: > 8 h
<i>Safety goggles:</i>	Wear goggles with side shields.
<i>Protective suit:</i>	Put on the protective suit.
<i>Limitation and control of environmental exposure:</i>	Prevent the product from reaching waterways and sewers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	Liquid
<i>Form:</i>	Light
<i>Color</i>	Not applicable
<i>Odour</i>	Odorless
<i>Odor threshold:</i>	Undefined
<i>pH:</i>	7 - 8 (3% in water)
<i>Melting point / freezing point:</i>	< 0°C
<i>Melting temperatures:</i>	Unavailable
<i>Boiling temperatures:</i>	Not applicable
<i>Flash point:</i>	Not applicable
<i>Flammability (solid, gaseous):</i>	Not applicable
<i>Ignition temperatures:</i>	Not applicable
<i>Decomposition temperatures:</i>	ca. 180 °C
<i>Explosion Danger:</i>	Undefined.
<i>Flammability limits:</i>	
<i>Inferior:</i>	Undefined.
<i>Superior:</i>	Undefined.
<i>Oxidizing properties:</i>	Comburente
<i>Vapour pressure:</i>	Not applicable
<i>Density a 20 °C:</i>	ca. 1,2 g/cm ³
<i>Relative density:</i>	Undefined

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Vapor density:	Not applicable
Evaporation rate	Not applicable
Solubility in / Miscibility with Water at 25 ° C:	Unavailable
Distribution coefficient (n-Octanol / water):	Undefined
Dynamic viscosity:	Not applicable

9.2. OTHER INFORMATION

None

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Oxidizing property

10.2 CHEMICAL STABILITY

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Intense reaction with:
Combustible materials, Reducing agents,
=> Explosive properties

10.4 CONDITIONS TO AVOID

Keep away from heat. Decomposition takes place at temperatures > 148 ° C.

10.5 INCOMPATIBLE MATERIALS

There is no additional information.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous combustion products: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD / LC50 values relevant for classification:

Oral	LD50 > 700 mg/kg (Rat)	(Read across OECD 401 ; EPA OPPTS 870.1100)
Cutaneous	LD50 > 2000 mg/kg (Rat)	(Read across EPA OPP 81-2)
Per inhalation	LC50/4h > 5,1 mg/l (Rat)	(Read across EPA OPP 81-3)

Primary irritability: Slight skin irritation.

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<i>On the skin:</i>	It irritates the skin and mucous membranes. Read across OECD 404 Test Rabbit.
<i>On the eyes:</i>	Irritant Read across
<i>Awareness raising:</i>	Test Rabbit
<i>Additional toxicological data:</i>	May cause Sensitization in contact with skin.
<i>Repeated dose toxicity:</i>	Mouse local lymphnode assay (LLNA) equivalent to OECD Guideline 406 (Skin Sensitisation)
<i>STOT - repeated exposure:</i>	Harmful
<i>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</i>	No mutagenic activity was shown. Ames-Test: negative. Micronucleous test Mouse intraperitoneal: negative (OECD TG 474) Carcinogenic effects are not expected. Carcinogenicity Studies (OECD 451): negative (read across) Not supposed to be a reproductive toxicant. Reproduction / Developmental Toxicity Screening Test - OECD 421: (read across) NOAEL reproduction > = 250 mg/kg rat (parenteral). NOAEL reproduction > = 250 mg/kg mg/kg rat (offsprings F1).
	Undefined

12. ECOLOGICAL INFORMATION

12.1. TOXICITY	<i>Toxicity acquatica: EC10/18h</i>	36 mg/l (bacteria) (Read across)
	<i>EC50/48h</i>	120 mg/l (Daphnia) (Read across (FIFRA Guideline 72-2))
	<i>EC50/72h</i>	83,7 mg/l (pseudokirchneriella subcapitata) (Read across OECD 201-FIFRA 123-2)
	<i>LC50/96h</i>	76,3 mg/l (oncorhynchus mykiss) (Read across)
12.2 PERSISTENCE AND DEGRADABILITY		Not applicable (inorganic compound).
12.3 POTENTIAL OF BIOACCUMULATION		No other information available.
12.4 MOBILITY IN THE SOIL		No other information available.

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12.5. RESULTS OF PBT AND VPVB EVALUATION	Evaluation PBT:	Not applicable.
	Evaluation vPvB:	Not applicable.
12.6. OTHER ADVERSE EFFECTS		No other information available.

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS	Waste from residues / unused products:	Do not dispose of the product with household waste. Do not enter the sewers. The product must be subjected to special treatment in compliance with administrative provisions.
	Contaminated containers:	Disposal in accordance with administrative regulations. The packaging must be disposed of in accordance with the Packaging Ordinance.

14. Transport information

	HS code	29221500
14.1 NUMBER ONU	ADR, IMDG, IATA:	UN1505
14.2 UN PROPER SHIPPING NAME	ADR: IMDG, IATA:	1505 SODIUM PERSULPHATE
14.3 DANGER CLASSES RELATED TO TRANSPORT	ADR:	Class: 5.1 (02) Oxidizing substances Labels: 5.1
	IMDG, IATA:	Class: 5.1 (02) Oxidizing substances Labels: 5.1
14.4 PACKAGING GROUP ADR, IMDG, IATA:		III
14.5 DANGERS FOR THE ENVIRONMENT	Marine pollutant:	No



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14.6 SPECIAL PRECAUTIONS FOR USERS	Attention:	Oxidizing substances
14.7 TRASPORTO DI RINFUSE SECONDO L'ALLEGATO II DI MARPOL 73/78 ED IL CODICE IBC	Transport / further information:	
	ADR	
	Limited quantities (LQ):	5 kg
	Exempt quantities (EQ):	Code: E1
	Maximum net quantity for internal packaging:	30 g
	Maximum net quantity for outer packaging:	1000 g
	Shipping Category:	3
	Tunnel restriction code:	E
	IMDG	
	Limited quantities (LQ)	5 kg
	Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging:	30 g
	Maximum net quantity per outer packaging:	1000 g
	UN "Model Regulation":	UN1505, PERSOLFATO DI SODIO, 5.1, III
	HS-Code	2833.4000

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	Directive 67/548/ECC & Directive 1999/45/EC	
	Regulation (EC)	n° 1907/2006
	Regulation (EC)	n° 1272/2008
	Regulation (EC)	n° 453/2010
	Regulation (EC)	n° 487/2013
	National provisions:	
	Class 1 water hazard (WGK1)	Not very dangerous
15.2 CHEMICAL SAFETY ASSESSMENT:		A safety assessment was carried out.

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16. OTHER INFORMATION

The data are reported on the basis of our current knowledge, however they do not represent any guarantee of the product characteristics and do not justify any contractual legal relationship.

H-statement(s)

H272 Can aggravate a fire; oxidizing.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 It can irritate the respiratory tract.

This safety data sheet has been prepared in accordance with the following:

Regulation (UE) n. 453/2010

Regulation (CE) n. 1907/2006

Regulation (CE) n. 1272/2008

The information contained in this safety data sheet was compiled on the basis of our knowledge at the date of publication of this document. This information is purely indicative to allow handling, transformation, storage, transport, distribution, supply, use and disposal in safe and saurient conditions, therefore interpreted as a guarantee or considered specific of quality. This information refers only to the specific material entered and, if not specified, it cannot be applicable in the case of a mixture of the product with other substances or in other manufacturing processes. The data contained in this safety data sheet refer exclusively to the specific material designated in this document and does not refer to use in combination with other materials or in other processes. This information is based on technical information believed to be reliable. It is subject to review as new knowledge and experience is gained.

OF THE ATTACHMENTS

The product supplied is not dangerous and does not contain:

- Relevant components that would require a chemical safety assessment
- Components present in concentrations above the cut-off value

Therefore, pursuant to Regulation (EC) No. 1907/2006, article 31, paragraph 7, no display scenario attached to the aforementioned safety data sheet is available.