

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

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

1.1. Product identifier

Trade name **PERFO GRIF**

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

Use of the product

**LIQUID ACID
DISINFECTION OF MILKING CLUSTER**

1.3. Details of the supplier of the safety data sheet

Company identification

**Manufacturer: HYPRED S.A.
57, Boulevard Jules VERGER B.P. 10180
35803 DINARD CEDEX - FRANCE
Tél : 33 2 99 16 50 00
Fax : 33 2 99 16 50 20
e-mail : hypred@hypred.fr**

For information regarding this safety data sheet, please contact :
hypred.regulatory@roullier.com

1.4. Emergency telephone number

Emergency phone number

**Emergency direct number (24 hours a day, 7 days a week) : (+)1-760-476-3961
Access code : 333021**

**Call your medical practitioner LONDON (Information available at the National
Poison Unit - Guy's Hospital)**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

Skin corrosion - Category 1B	H314: Causes severe skin burns and eye damage.
Organic peroxide Typ G	
Substance corrosive to metals - Category 1	H290: May be corrosive to metals.
Specific target organ toxicant - single exposure - Category 3	H335: May cause respiratory irritation.
Chronic toxicity to the aquatic environment - Category 1	H410: Very toxic to aquatic life with long lasting effects.
Acute toxicity - Category 4 (per dermal route)	H312: Harmful in contact with skin.

Classification according to Directive 1999/45/EEC:

The mixture meets the classification criteria provided for under Directive 1999/45/EEC.

C : CORROSIVE

R21 : Harmful in contact with skin.

R34 : Causes burns.

R52 : Harmful to aquatic organisms.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Hazard statement(s) :

H290: May be corrosive to metals.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) :

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260: Do not breathe vapours/spray.

P273: Avoid release to the environment.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P391: Collect spillage.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Risk of breaking down in contact with metals, bases, reducing agents or flammable materials.
Danger of breaking down under the action of warming or heat.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable as this involves a mixture.

3.2. Mixtures

Chemical nature of the mixture : LIQUID ACID

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

Substance(s)	CAS number (s)	EINECS number(s)	No registration REACH	Classification according to 67/548/EEC or 1999/45/EC	Classification according to Regulation 1272/2008/EC	Type
10% <= acetic acid < 25%	64-19-7	200-580-7	01-2119475328-30	C , R10 R35	Flam. Liq. 3 H226 Skin Corr. 1A H314	(1) (2)
8% <= Hydrogen peroxide < 35%	7722-84-1	231-765-0	Biocidal active substance, regarded as already registered	C O , R20/22 R35 R5 R8	Ox. Liq. 1 H271 Acute Tox. 4 (inhalation) H332 Acute Tox. 4 (oral) H302 Skin Corr. 1A H314 STOT SE 3 H335 Aquatic Chronic 3 H412	(1) (2)
5% <= Peracetic acid < 10%	79-21-0	201-186-8	Biocidal active substance, regarded as already registered	C N O , R10 R20/21/22 R35 R50 R7	Flam. Liq. 3 H226 Org. Perox. D H242 Acute Tox. 4 (inhalation) H332 Acute Tox. 4 (dermal) H312 Acute Tox. 4 (oral) H302 Skin Corr. 1A H314 Aquatic Acute 1 H400 STOT SE 3 H335 Aquatic Chronic 1 H410 M Factor (Acute) 1 M Factor (Chronic) 10	(1) (2)

Type

- (1) : Substance classified as hazardous for health and/or the environment
- (2) : Substance with an exposure limit at the work station.
- Substance of very high concern candidate for the authorisation procedure:
- (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)
- (4) : Substance considered as vPvB (very persistent, very bioaccumulable)
- (5) : Substance considered as carcinogenic category 1A
- (6) : Substance considered as carcinogenic category 1B
- (7) : Substance considered as mutagenic category 1A
- (8) : Substance considered as mutagenic category 1B
- (9) : Substance considered as reprotoxic category 1A
- (10) : Substance considered as reprotoxic category 1B
- (11) : Substance considered as endocrine disrupter

Full text of R-, H- and EUH- phrases see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

In the event of inhalation :

Bring to fresh air.
Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :

Take off immediately all contaminated clothing.
Wash immediately with plenty of water for 15 minutes at least.
Immediately call a POISON CENTER or doctor/physician.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.
Remove contact lenses if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Rinse mouth.
Do NOT induce vomiting.
Send to hospital.

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

Skin contact : Corrosive : Causes severe burns.
Harmful in contact with skin.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : May cause respiratory irritation.

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

Treatments : Symptomatic treatment

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :

Pulverized water.
Foam, powder, carbon dioxide.
Agents compatible with other products involved into fire.

Unsuitable extinguishing media :

Organic compounds

5.2. Special hazards arising from the substance or mixture

Thermal decomposition gives Oxygen, that can enhance sites of combustion.

5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Keep containers cool by spraying with water if exposed to fire.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

6.1.2. For emergency responders :

Evacuate the personnel to a safe location.

Keep people upwind and away from the location of the flow/leak.

Use personal protection equipment.

6.2. Environmental precautions

Intervention limited to trained staff.

Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.

6.3. Methods and material for containment and cleaning up

Small spillage :

Pump in a reservoir of help.

Large spillage :

Mark out, dyke up with an inert absorbant and pump in an emergency tank.

Do not use: textiles, sawdust, flammable substances.

Never return spills in original containers for re-use.

Keep in suitable, properly labelled and closed containers for disposal.

6.4. Reference to other sections

Respect protective measures presented at heading 8.

Refer to section 13 for the elimination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.

Do not inhale vapour, aerosols, mist.

Do not eat, drink or smoke in work area. Avoid projections during use.

Take off immediately all contaminated clothing.

Keep away from incompatible matters (see heading 10).

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Keep only in the original container.

Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.

Keep away from incompatible matters (see heading 10).

Keep container closed.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

PERFO GRIF is for use as a biocide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

Substance	Country	Type	Value	Unit	Comments	source	
Peracetic acid	FRA	VLCT Short term	1,58	mg/m ³	Valeur proposée par l'INRS		INRS
			0,5	ppm	Valeur proposée par l'INRS		INRS
		VLEP 8h	0,63	mg/m ³	Valeur proposée par l'INRS		INRS
			0,2	ppm	Valeur proposée par l'INRS		INRS
acetic acid	GBR	OEL 8h	(10)	ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards.	International limit values for chemical agents	
			(25)	mg/m ³	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards.	International limit values for chemical agents	
		OEL Short term	(15)	ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards.	International limit values for chemical agents	
			(37)	mg/m ³	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards.	International limit values for chemical agents	
Hydrogen peroxide	GBR	OEL 8h	1	ppm		International limit values for chemical agents	
			1,4	mg/m ³		International limit values for chemical agents	
		OEL Short term	2	ppm		International limit values for chemical agents	
			2,8	mg/m ³		International limit values for chemical agents	

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

8.2. Exposure controls

Directive 98/24/EEC requires the employer to introduce risk management measures. If restricted or indicative regulatory limit values have been set for substances in section 8.1, the employer must act on the outcome of his chemical risk assessment by checking the professional exposure limit values for their compliance.

8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

PVC

Neoprene.

Butyl rubber.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

At the time of handling leading to vapor formation, wear a half-mask in compliance with the European standard EN 140 or a complete mask with a filter in conformity with the European standard EN 136 (in conformity with the European standard EN 141 or EN 14387) of type: ABEK.

At the time of applications by spraying (leading to aerosols), wear a half-mask in compliance with the European standard EN 140 or a complete mask in conformity with the European standard EN 136 equipped with a filter (in conformity with the European standard EN 143) of the following type:

P: Particles, solid aerosols and liquids.

It is possible to combine the anti-vapor filters and anti-aerosols.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15



Thermal hazards :
Not applicable

Health measures :
Safety shower and eye wash fountain near to workplace.
After using, wash systematically all personal protective equipment.
Handle in accordance with good industrial hygiene practices and the safety instructions.

8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour	Colourless
Odour	Pungent
Odour threshold	Non available
Pure pH	0.9±0.3
pH value at 10g/l	3±0.5
Freezing point :	-25 °C
Boiling point (OECD : 103)	100.4 °C
Flash point (EC : A9)	> 110 °C
Evaporation rate:	Non available
Flammability	The mix is not considered be flammable according to the criteria of Regulation 1272/2008/EC.
Vapour pressure	Non available
Vapour density	Non available
Mass density	1.09±0.01 g/cm ³
Relative density	1.09±0.01
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Non available
	>= 60 °C (Self-accelerated decomposition temperature)
Viscosity	Non available
Explosive properties	Not applicable
Oxidising properties (UN : O.2)	non-oxidising

9.2. Other information

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

No additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

Danger of breaking down under the action of warming or heat.

10.2. Chemical stability

Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Avoid the contact with the basis, metals, reducing agents, organic and inflammable matters.

10.4. Conditions to avoid

Light, heat.

10.5. Incompatible materials

Basis.
Organic matters.
Metals.
Flammable substances.
Reducing agents.

10.6. Hazardous decomposition products

Release of oxygen.

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance-related data:

Acute toxicity

Hydrogen peroxide (35%) : LD 50 - oral rat 1,193 - 1,270 mg/kg. - MSDS supplier

Hydrogen peroxide (35%) : LD 50 - dermal rabbit > 2,000 mg/kg. - MSDS supplier

Hydrogen peroxide (100%) : LC 50 - inhalation - 4h rat 11 mg/L. - vapour - MSDS supplier

acetic acid (74%) : LD 50 - oral rat 3,310 mg/kg. - MSDS supplier

acetic acid (74%) : LC 50 - inhalation - 4h rat > 16,000 ppm. - MSDS supplier

Skin corrosion/irritation

Hydrogen peroxide (35%) : Skin irritation rabbit . Irritating - MSDS supplier

acetic acid (74%) : Cutaneous contact . Corrosive. - MSDS supplier

Serious eye damage/eye irritation

Hydrogen peroxide (10%) : Eye irritation . Serious damage to eyes - MSDS supplier

acetic acid (74%) : Eye contact : . Corrosive. - MSDS supplier

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

Sensitisation

acetic acid (74%) : Sensitisation . Not sensitising - MSDS supplier

Hydrogen peroxide (35%) : Sensitisation guinea-pig . Not sensitising - MSDS supplier

Mutagenicity

Hydrogen peroxide (35%) : in vivo . Not mutagenic - MSDS supplier

Carcinogenicity

Hydrogen peroxide (35%) : Dermal route mouse . Not carcinogenic - MSDS supplier

Specific target organ toxicity - single exposure

Hydrogen peroxide (50%) : DR 50 mouse 665 mg/m3. Irritating to respiratory system. - MSDS supplier

Mix-related data :

Acute toxicity

LD 50 - oral rat (Sprague-Dawley) (OCDE 420): > 2,000 mg/kg.

Skin corrosion/irritation

Skin corrosivity . The mixture should be considered as corrosive because of its extreme pH.

Serious eye damage/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

Respiratory or skin sensitisation

Skin sensitisation (OCDE 406): . Not sensitising

Respiratory sensitization . The mixture is not considered as a respiratory sensitiser according to 1272/2008/EC Regulation.

Repeated dose toxicity

NOAEL - oral rat (Sprague-Dawley) (OCDE 408): 23.4 mg/kg bw day.

Mutagenicity

(OCDE 471, 473, 474): . Not mutagenic

Carcinogenicity

. The classification criteria are not met given the available data.

Reproductive toxicity

. The classification criteria are not met given the available data.

Specific target organ toxicity - single exposure

Respiratory tracts irritation . May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

Aspiration hazard

. The classification criteria are not met given the available data.

Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Harmful in contact with skin.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

Eye contact : Causes serious eye damage.**Ingestion** : Causes severe burns in mouth and digestive tract.**Inhalation** : May cause respiratory irritation.**SECTION 12: Ecological information****12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil****Substance-related data:**

Acute toxicity

Hydrogen peroxide (35%) : NOEC - 96h fishes (Pimephales promelas) 4.3 mg/L. - MSDS supplier

Hydrogen peroxide (35%) : EC 50 - 48h shellfishes (Daphnia pulex) 2.4 mg/L. - MSDS supplier

Hydrogen peroxide (35%) : NOEC - 48h shellfishes (Daphnia pulex) 1 mg/L. - MSDS supplier

Hydrogen peroxide (35%) : EC 50 - 72h algae (Skeletonema costatum) 2.6 mg/L. - MSDS supplier

acetic acid (74%) : LC 50 - 96 fishes > 300.82 mg/L. - MSDS supplier

acetic acid (74%) : LC 50 - 48h daphnia > 300.82 mg/L. - MSDS supplier

acetic acid (74%) : EC 50 - 72h algae > 300.82 mg/L.

Hydrogen peroxide : NOEC - 72h algae 0.63 mg/L. - MSDS supplier

Degradability

Hydrogen peroxide (35%) : Aerobic biodegradability, half time - 0,3-5days . Easily biodegradable. - MSDS supplier

acetic acid (74%) : Biodegradability . Biodegradable - MSDS supplier

Bioaccumulation

Hydrogen peroxide (35%) : Log Pow - 1.57 . Not bioaccumulative - MSDS supplier

Mix-related data:

Acute toxicity

LC 50 - 96h fishes (Oncorhynchus mykiss) (OCDE 203): 10.1 mg/L.

EC 50 - 48h daphnia (Daphnia magna) (OCDE 202): 37.3 mg/L.

EC 50 - 72h algae (Scenedesmus subspicatus) (OCDE 201): 30.5 mg/L.

CHRONIC TOXICITY

. No data available.

Degradability

. Not applicable due to the rapid degradation of peracetic acid and hydrogen peroxide in the environment.

Bioaccumulation

. Not applicable due to the rapid degradation of peracetic acid and hydrogen peroxide in the environment.

Mobility

. Not applicable due to the rapid degradation of peracetic acid and hydrogen peroxide in the environment.

Conclusion :

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Treatment of the mixture :**

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2001/119/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2001/119/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

SECTION 14: Transport information**ROAD TRANSPORT:**

Rail/Route (RID/ADR)

UN no : 3265

UN proper shipping name : ACID, CORROSIVE, ORGANIC LIQUID, N.O.S. (Peracetic acid+Hydrogen peroxide)

Class : 8

Packing group : II

Hazard code : 80

Label : 8



Tunnel code : E

Environmental hazard : Yes (Peracetic acid)

Special precautions for user : No information.

MARITIME TRANSPORT :

IMDG

UN no : 3265

UN proper shipping name : ACID, CORROSIVE, ORGANIC LIQUID, N.O.S. (Peracetic acid+Hydrogen peroxide)

Class : 8

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

**Packing group** : II**Marine pollutant** : Yes (Peracetic acid)**Special precautions for user** : No information.**EmS number** : F-A,S-B

Comply with the provisions of the IMDG on the physical separation of materials.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

Not concerned

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulations relating to the hazards from major accidents :**

Directive 96/82/EC amended by Directive SEVESO 2 (2003/15/EC)

Regulations relating to the classification, packing and labelling of substances and mixes :

Regulation 1272/2008/EC amended, Directive 1999/45/EC amended.

Waste regulations :

Directive 2008/98/EC of 19/11/2008 relating to waste.

Decision 2000/532/EC amended which establishes the list of hazardous waste.

Protection of workers :

Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation 850/2004/EC on persistent organic pollutants and modifying Directive 79/117/EC : Not concerned**Regulation 2037/2000/EC on substances that deplete the ozone layer** : Not concerned**Regulation (EC) 648/2004 :**

Not concerned

15.2. Chemical safety assessment

No

SECTION 16: Other information

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to

PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15

the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

Revision of the safety data sheet according to 453/2010/EC Regulation.

List of R phrases referred to in sections 2 and 3 :

- R10 : Flammable.
- R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.
- R20/22 : Harmful by inhalation and if swallowed.
- R21 : Harmful in contact with skin.
- R34 : Causes burns.
- R35 : Causes severe burns.
- R5 : Heating may cause an explosion.
- R50 : Very toxic to aquatic life.
- R52 : Harmful to aquatic organisms.
- R7 : May cause fire.
- R8 : Contact with combustible material may cause fire.

List of H phrases referred to in sections 2 and 3 :

- H226 : Flammable liquid and vapour.
- H242 : Heating may cause a fire.
- H271 : May cause fire or explosion; strong oxidiser.
- H302 : Harmful if swallowed.
- H312 : Harmful in contact with skin.
- H314 : Causes severe skin burns and eye damage.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.
- H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

- INRS
- MSDS supplier
- International limit values for chemical agents

Historical :

- Version 5.0.0
- Cancels and replaces previous version 4.4.3



PERFO GRIF

Code: 0 322 S

Material Safety Data Sheet compliant with Regulation (EC) 1907/2006, Annex II, amended by Regulation (EC) 453/2010

Version 5.0.0

Revision: 26/05/15

Print Date : 26/05/15
