



ADF iFlush+

Code: 3 221 R

Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.0.0

Revision: 25/08/15

Print Date : 06/01/16

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

1.1. Product identifier

Trade name **ADF iFlush+**

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

Use of the product

LIQUID ACID

ADF iFlush+ is a peracetic acid disinfectant specifically designed for use with the ADF Milking system

DISINFECTION OF MILKING CLUSTERS

1.3. Details of the supplier of the safety data sheet

Company identification

**Distributed by ADF Milking Ltd
1 Camelia Court
Shellbridge Road
Slindon
West Sussex
BN18 OLT - UK**

1.4. Emergency telephone number

Emergency phone number

**Call your medical practitioner LONDON (Information available at the National Poison Unit - Guy's Hospital)
24 hour poisons information in the UK: 0844 892 0111**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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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.
Serious eyes damages - Category 1	H318: Causes serious eye damage.

2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :

Danger

Contains : acetic acid+ Peracetic acid+ Hydrogen peroxide

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.



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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

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Substance(s)	CAS number (s)	EINECS number (s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
10% <= acetic acid < 25%	64-19-7	200-580-7	01-2119475328-30	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	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	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)

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 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.



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Immediately call a POISON CENTER or doctor/physician.

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



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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.

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, soak 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).



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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.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

ADF iFlush+ is for use as a biocide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

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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	

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According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

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:

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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.



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



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Appearance	Clear liquid
Colour	Colourless
Odour	Pungent
Odour threshold	Not 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:	Not available
Flammability	The mix is not considered be flammable according to the criteria of Regulation 1272/2008/EC.
Vapour pressure	Not available
Vapour density	Not 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	Not available
	>= 60 °C (Self-accelerated decomposition temperature)
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties (UN : O.2)	non-oxidising

9.2. Other information

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.



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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

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:



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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.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : May cause respiratory irritation.



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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.

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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 2014/955/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 2014/955/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

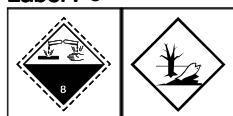
UN proper shipping name : CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (Peracetic acid+Hydrogen peroxide)

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

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

Class : 8



Packing group : II

Marine pollutant : Yes (Peracetic acid)

Special precautions for user : No information.

EmS number : F-A,S-B

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 SEVESO 3 (2012/18/CE) : In progress

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

Regulation 1272/2008/EC amended.

Waste regulations :

Directive 2008/98/EC of 19/11/2008 relating to waste - Regulation 1357/2014/EC

Decision 2014/955/EC 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 1005/2009/EC amended on substances that deplete the ozone layer : Not concerned

Regulation (EC) 648/2004 :

Not concerned

15.2. Chemical safety assessment

No



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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 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 2015/830/EC Regulation.

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 6.0.0
- Cancel and replaces previous version .



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