

HYSPRAY PA 5
Code: 03223

Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.0.1
Creation date : 25/08/10
Revision: 05/12/22
Print Date : 08/12/23

2.1. Classification of the substance or mixture

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

Organic peroxide Typ G

Substance corrosive to metals - Category 1

Acute toxicity - Category 4 (per dermal route)

Skin corrosion - Category 1B

Serious damage to eyes - Category 1

Specific target organ toxicity (STOT) - single exposure - Category 3

Hazardous to the aquatic environment – Chronic - Category 1

H290: May be corrosive to metals.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

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

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.

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P273: Avoid release to the environment.

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): Take off immediately all contaminated clothing. Rinse skin with water [or 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)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
10% <= acetic acid < 25%	64-19-7	200-580-7	607-002-00-6	01-2119475328-30	Flam. Liq. 3 H226 Skin Corr. 1A H314	C ≥ 90% Skin Corr. 1A H314 25% ≤ C < 90% Skin Corr. 1B H314 10% ≤ C < 25% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1) (2)
8% <= Hydrogen peroxide < 35%	7722-84-1	231-765-0	008-003-00-9	Biocidal active substance, regarded as already registered	Ox. Liq. 1 H271 Acute Tox. 4 (inhalation) H332 Acute Tox. 4 (oral) H302 STOT SE 3 H335 Aquatic Chronic 3 H412 Eye Dam. 1 H318 Skin Corr. 1A H314	C ≥ 70% Ox. Liq. 1 H271 35% ≤ C < 50% Skin Irrit. 2 H315 8% ≤ C < 50% Eye Dam. 1 H318 5% ≤ C < 8% Eye Irrit. 2 H319	(1) (2)
5% <= Peracetic acid < 10%	79-21-0	201-186-8	607-094-00-8	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	C ≥ 1% STOT SE 3 H335 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
 (12) : Other substance considered hazardous to health or the environment
 (N) : Nanomaterial

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 :

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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.

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 :

Waterspray.

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.

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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.

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)

HYSPRAY PA 5 is for use as a biocide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Type	Value	Unit	Comments	source
Peracetic acid	79-21-0	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
Hydrogen peroxide	7722-84-1	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
			STEL	2	ppm		MSDS supplier
				2,8	mg/m ³		MSDS supplier
			TWA	1	ppm		MSDS supplier

8.2. Exposure controls

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.

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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.



Thermal hazards :

Not applicable

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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

Appearance	Clear liquid
Colour	Colourless
Odour	Pungent
Odour threshold	Not available
Freezing point	-25 °C
Melting point	Not applicable
Boiling point (OECD : 103)	100.4 °C
Flammability 1272/2008/EC.	The mix is not considered be flammable according to the criteria of Regulation
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point (EC : A.9)	> 110 °C
Auto-ignition temperature	Not applicable
Decomposition temperature	>= 60 °C (Self-accelerated decomposition temperature (SADT))
Pure pH	0.9±0.3
pH value at 10g/l	3±0.5
kinematic viscosity	Not available
Solubility in water	Not applicable
Solubility	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Not available
Relative density	1.09±0.01
Mass density	1.09±0.01 g/cm ³
Vapour density	Not available
Particle characteristics	Not applicable

9.2. Other information

Explosive properties	Not applicable
Oxidising properties (UN : 0.2)	non-oxidising
Viscosity	Not available
Evaporation rate:	Not available

SECTION 10: STABILITY AND REACTIVITY

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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 hazard classes as defined in Regulation (EC) N°1272/2008

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 1.5 mg/L. - Mists - 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
acetic acid (75%) : rabbit . Corrosive. - MSDS supplier

Serious damage to eyes/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

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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) (OECD 420): > 2,000 mg/kg.

Skin corrosion/irritation

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

Serious damage to eyes/eye irritation

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

Respiratory / skin sensitisation

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

Skin sensitisation (OECD 406): . Not sensitising

Repeated dose toxicity

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

Mutagenicity

(OECD 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.

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Inhalation : May cause respiratory irritation.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Not concerned

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) (OECD 203): 10.1 mg/L.

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

EC 50 - 72h algae (Scenedesmus subspicatus) (OECD 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 Endocrine disrupting properties

Not concerned

12.7. 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 amended, 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 amended, 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)

14.1 UN number or ID number : 3265

14.2 UN proper shipping name :

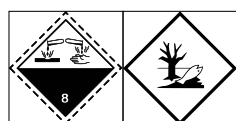
CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (acetic acid + Hydrogen peroxide + Peracetic acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

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14.5 Environmental hazards : Yes (Peracetic acid)

14.6 Special precautions for user : No information.

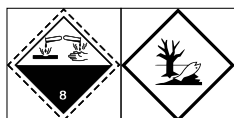
Limited Quantity (QL): 1L

MARITIME TRANSPORT : IMDG

14.1 UN number or ID number :3265

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

14.3 Transport hazard class(es) : 8



14.4 Packing group : II

14.5 Environmental hazards

Marine pollutant : Yes (Peracetic acid)

14.6 Special precautions for user : No information.

EmS number : F-A,S-B

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :
Active ingredient: Peracetic acid, Hydrogen peroxide

Regulations relating to the hazards from major accidents :
SEVESO 3 Directive (2012/18/EC) : E1

Regulations relating to the classification, packaging and labelling of substances and mixtures :
Regulation (EC) 1272/2008 amended.

Waste regulations :
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC

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Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

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 (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Regulation (EC) 648/2004 :

Not concerned

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

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 :

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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List of H phrases referred to in section 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.

H318 : Causes serious 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 7.0.1

Cancels and replaces previous version 7.0.