

Code: PF7096

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

Version 6.2.0 Creation date : 03/10/19 Revision: 09/02/21 Print Date : 09/02/21

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

1.1. Product identifier

Trade name

FUMAGRI EFFISAFE

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

Use of the product

LIQUID DISINFECTANT STOCK BREEDING DISINFECTION BY SOAKING, SPRAYING, FOAM APPLICATION - OF VEHICLES, BUILDINGS, EQUIPMENT, SURFACES

1.3. Details of the supplier of the safety data sheet

Company identification

Distributed by Kilco (International) Ltd Broomhouses 2 Industrial Estate Old Glasgow Road - Lockerbie United Kingdom DG11 2SD +44 (0) 1576 205480

For information regarding this safety data sheet, please contact : regulatory@kersia-group.com

1.4. Emergency telephone number

Emergency phone number

Emergency direct number (24 hours a day, 7 days a week) : +44 1273 289451

CARECHEM 24 Great Britain Tel. +44 1865 407333

NHS : 111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture



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

Skin irritation - Category 2	H315: Causes skin irritation.
Skin sensitisation - Category 1B	H317: May cause an allergic skin reaction.
Serious damage to eyes - Category 1	H318: Causes serious eye damage.
Hazardous to the aquatic environment — Chronic - Category 2	H411: 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 : Biphenyl-2-ol+ Chlorocresol

Hazard statement(s) :

H315: Causes skin irritation.H317: May cause an allergic skin reaction.H318: Causes serious eye damage.H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s) :

P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection.P302 + P352: IF ON SKIN: Wash with plenty of soap and water.P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.P501: Dispose of this product and its container in a hazardous or special waste collection centre, compliant with local, regional, national and/or international regulations.



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No additional information available.

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

Substance(s)	CAS number(s)	EINECS number(s)	No registration REACH	Classification according to Regulation 1272/2008/EC	Туре
10% <= Paraffin oils, sulfochlorinated, saponified < 20%	68188-18-1	269-144-1	01-2119517577-32	Acute Tox. 4 (oral) H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 Aquatic Chronic 3 H412	(1)
10% <= Biphenyl-2-ol <= 20%	90-43-7	201-993-5	Biocidal active substance, regarded as already registered	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 1 M Factor (Chronic) 1	(1)
5% <= Ethanol < 10%	64-17-5	200-578-6	01-2119457610-43	Flam. Liq. 2 H225 Eye Irrit. 2 H319	(1) (2)
1% <= Chlorocresol < 5%	59-50-7	200-431-6	Biocidal active substance, regarded as already registered	STOT SE 3 H335 Acute Tox. 4 (oral) H302 Skin Corr. 1C H314 Skin Sens. 1B H317 Eye Dam. 1 H318 Aquatic Chronic 3 H412 Aquatic Acute 1 H400 M Factor (Acute) 1	(1)

Туре

(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 $% \left({\left[{{{\rm{A}}} \right]} \right)$

(6) : Substance considered as carcinogenic category 1B

(7) : Substance considered as mutagenic category 1A

(8) : Substance considered as mutagenic category 1B $\,$



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(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 :

To transport the person to the air, to maintain it with the heat and rest. 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 and abundantly with water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

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. Immediately consult an ophtalmologist, even in the absence of apparent damages.

In the event of ingestion : Rinse mouth. Do NOT induce vomiting. Call a doctor immediately.

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

Skin contact : Causes skin irritation. May cause sensitization by skin contact.

Eye contact : Causes serious eye damage.

Ingestion : No data available. Does not have to come into contact with food, nor to be introduced.

Inhalation : May cause respiratory irritation.



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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 : Water, powder extinguisher, foam, carbon dioxide.

Unsuitable extinguishing media : None from our knowledge.

5.2. Special hazards arising from the substance or mixture

The mixture is not considered qs flammable according to the criteria of Regulation 12872/2008/EC as it does not maintain combustion as per Trial L.2 of the Trial Manual and criteria (Carriage of hazardous goods).

5.3. Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel :

Ensure adequate ventilation. Evacuate non-essential staff and those not equipped with individual protection apparatus. If safe to do so, plug or seal off leak.

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

Design the installations and take any measurement necessary to avoid the ground and water pollution. Protect the sewers from possible discharges in order to minimize the risks of pollution. Do not discharge the product directly to sewer or to environment.

Take as soon as possible all incompatible materials away.



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6.3. Methods and material for containment and cleaning up

Small spillage :

Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

Recover in a reservoir of help.

Large spillage :

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

Operate in a well ventilated place. Do not breathe vapour. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke in work area. Avoid projections during use. Product to be handled following good industrial hygiene and safety procedures. Avoid inhaling vapours or aerosols. Do not mix with an alkali.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage :

Keep away from food drink and animal feedingstuffs. Store in a dry, temperated place and well ventilated, away from gel. Storage in the original, closed packaging, between +4°C and +25°C. Conceive the installations and take all measure to avoid the pollutions of waters and soil contamination. Keep away from products sensitive to acids.

7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

7.3. Specific end use(s)

FUMAGRI EFFISAFE is for use as a biocide.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters



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Exposure limit values :

Substance	CAS number	Country	Туре	Value	Unit	Comments	source
Isopropyl alcohol	67-63-0	GBR	OEL 8h	400	ppm		International limit values for chemical agents
				999	mg/m³		International limit values for chemical agents
			OEL Short term	500	ppm		International limit values for chemical agents
				1250	mg/m³		International limit values for chemical agents
			OEL 8h	400	ppm		International limit values for chemical agents
				999	mg/m³		International limit values for chemical agents
			OEL Short term	500	ppm		International limit values for chemical agents
				1250	mg/m³		International limit values for chemical agents
Propane-1,2-diol	57-55-6	6 GBR	OEL 8h	150	ppm		International limit values for chemical agents
				474	mg/m³		International limit values for chemical agents
			EMV (Exposure medium value) :	10	molm	(Brouillard)	MSDS supplier
Ethanol	64-17-5	GBR	OEL 8h	1000	ppm		International limit values for chemical agents
				1920	mg/m³		International limit values for chemical agents
				1000	ppm		International limit values for chemical agents
				1920	mg/m³		International limit values for chemical agents
Butanone	78-93-3	GBR	OEL 8h	200	ppm		International limit values for chemical agents
				600	mg/m³		International limit values for chemical agents
			OEL Short term	300	ppm		International limit values for chemical agents
				899	mg/m³		International limit values for chemical agents

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 :

Apply the necessary technical measures to comply with the professional exposure limit values. Ensure sufficient air exchange and/or exhaust in work areas.

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 :

Gloves in protection class 3 or above are recommended for brief contact (changeover time more than sixty minutes under standard EN 374).

Gloves in protection class 6 or above are recommended for prolonged or frequently repeated contact (changeover time more than 480 minutes under standard EN 374).

Examples of prefered materials for insulating gloves:

Nitrile rubber.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

No respiratory protection equipement is requested under normal conditions of use planned with an adequate ventilation.

In case of insufficient ventilation (Efficacy of local exhaust ventilation below 90%), at the time of applications by spraying, wear 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: ABEKP2 type filtration.

Thermal hazards : Not applicable

Health measures :



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> 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	Liquid
Colour	colourless to orange yellow
Odour	Characteristic
Odour threshold	Not available
Pure pH	3±0.5
pH value at 10g/l	7.39±0.5
Freezing point : (OECD : 102)	-35.8±0.5 °C
Melting point	Not applicable
Boiling point	87 °C
Flash point (EC : A9)	48.5±0.5 °C
Evaporation rate:	Not available
Flammability	The mixture is not considered qs flammable according to the criteria of Regulation 12872/2008/ EC as it does not maintain combustion as per Trial L.2 of the Trial Manual and criteria (Carriage of hazardous goods).
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.039 g/cm ³
Relative density	1.039
Solubility in water	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	473±3 °C
Decomposition temperature	Not available
Viscosity (OECD : 114)	16 mPa.s (Dynamic viscosity determined at 20°C.)
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2. Other information

No additional information.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable in the recommended storage and handling conditions. The mixture is likely to darken over time without altering its properties.



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Stable in the recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

None under normal conditions of use.

10.4. Conditions to avoid

Keep protected from frost.

10.5. Incompatible materials

Stong basis

10.6. Hazardous decomposition products

Unknown.

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

Biphenyl-2-ol (100%): LD 50 - oral rat (OECD 401): 2,733 mg/kg. - MSDS supplier Chlorocresol (100%): LD 50 - oral rat 1,830 mg/kg. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%): LD 50 - oral rat 1,271 mg/kg. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%): LD 50 - dermal rat > 5,000 mg/kg. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%): NOAEL - oral rat 200 mg/kg. - MSDS supplier

Skin corrosion/irritation Biphenyl-2-ol (100%): Skin irritation - 4hours (OECD 404): . Irritating to skin. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (0%): . Causes skin irritation. - MSDS supplier

Serious damage to eyes/eye irritation

Biphenyl-2-ol (100%): Eye irritation - 4hours . Irritating to eyes. - MSDS supplier Chlorocresol (100%): Ocular corrosivity rabbit (OECD 405): . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC. - MSDS supplier Ethanol (100%): Eye irritation rabbit (OECD 405): . Causes serious eye irritation. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (0%): . Causes serious eye irritation. - MSDS supplier

Respiratory / skin sensitisation Chlorocresol (100%): Skin sensitisation mouse, guinea-pig . Sensitizing - MSDS supplier

Specific target organ toxicity - single exposure Biphenyl-2-ol (100%): Respiratory tracts irritation . Irritating to respiratory system - MSDS supplier



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Mix-related data: :

Acute toxicity LD 50 - oral female rat (Sprague-Dawley) (OECD 425): > 2,000 mg/kg. Not classified LD 50 - dermal rat (Sprague-Dawley) (OECD 402): > 2,000 mg/kg bw. Not classified Skin corrosion/irritation Skin irritation rabbit (OECD 404): . The mixture is considered to be irritating to the skin according to the Regulation 1272/2008/EC.

Serious damage to eyes/eye irritation Ocular corrosivity rabbit (OECD 405): Causes serious eye damage according to the criteria of Regulation 1272/2008/ EC.

Respiratory / skin sensitisation Skin sensitisation laboratory animals (OECD 442-B): . The mix is considered to cause cutaneous sensitisation under Regulation 1272/2008/EC.

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

Mutagenicity

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

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

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 : Causes skin irritation. May cause sensitization by skin contact.

Eye contact : Causes serious eye damage.

Ingestion : No data available. Does not have to come into contact with food, nor to be introduced.

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

Biphenyl-2-ol (100%) : EC 50 - 48hours daphnia (Daphnia magna) 2.7 mg/L. - MSDS supplier Biphenyl-2-ol (100%) : EC 50 - 72hours algae (Pseudokirschnereilla subcaptiata) (OECD 201): 3.57 mg/L. - MSDS supplier Biphenyl-2-ol (100%) : LC 50 - 96hours fishes (Danio rerio) 4.5 mg/L. - MSDS supplier Chlorocresol (100%) : LC 50 - 96hours fishes (Oncorhynchus mykiss) 0.92 mg/L. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%) : LC 50 - 96hours fishes 4.16 mg/L. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%) : EC 50 - 48hours daphnia 4.72 mg/L. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%) : LC 50 - 71hours algae 246.89 mg/L. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%) : EC 50 - 3hours bacterias 810 mg/L. - MSDS supplier

Chronic toxicity Biphenyl-2-ol (100%): NOEC - 21days daphnia (Daphnia magna) (OECD 211): 0.009 mg/L. Can persist in environment - MSDS supplier Biphenyl-2-ol (100%): NOEC - 21days fishes (Pimephales promelas) 0.036 mg/L. - MSDS supplier Biphenyl-2-ol (100%): NOEC - 72hours algae (Pseudokirschnereilla subcaptiata) (OECD 201): 0.468 mg/L. - MSDS supplier

Degradability

Biphenyl-2-ol (100%): Biodegradability (OECD 301b): . Easily biodegradable. - MSDS supplier Paraffin oils, sulfochlorinated, saponified (100%): Biodegradability (Microorganisms / activated sludge) (OECD 301F): 100 mg/L. Easily biodegradable. - MSDS supplier

Mix-related data: :

Acute toxicity fishes . Not determined daphnia . Not determined algae . Not determined

Chronic toxicity . No data available.

Degradability DOC reduction - 28 jours (OECD 301A): 92 %. Easily biodegradable.

Bioaccumulation

Mobility

. No data available.

Conclusion :



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

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 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) UN no : 3082 UN proper shipping name :ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID,N.O.S. (Biphenyl-2-ol +Chlorocresol) Transport hazard class(es) : 9 Packing group : III Hazard code : 90 Label : 9



Tunnel code : (-) Environmental hazard : Yes (Biphenyl-2-ol + Chlorocresol) Special precautions for user : No information. Limited Quantity (QL): 5L

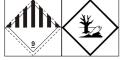


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> MARITIME TRANSPORT : IMDG UN no :3082 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID,N.O.S. (Biphenyl-2ol+Chlorocresol) <u>Transport hazard class(es)</u> : 9



Packing group : III Marine pollutant : Yes (Biphenyl-2-ol + Chlorocresol) Special precautions for user : No information. EmS number : F-A, S-F

Limited Quantity (QL): 5L

Transport in bulk according to Annex II of MARPOL 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 : SEVESO 3 Directive (2012/18/EC) : E2

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

Waste regulations :

2008/98/EC Directive amended by 2015/1127/EC Directive - 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 (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation 1005/2009/EC 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:



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Not concerned

Regulation (EC) 648/2004 : Not concerned

Comply with national and local legislation.

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 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;SECTION 15: REGULATORY INFORMATION

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

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

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



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H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet : MSDS supplier

Historical : Version 6.2.0 Cancels and replaces previous version 6.1.