

Safety Data Sheet



According to Regulation (EC) No. 1907/2006 (REACH)

XO4605P (Sure-Start HP-199)

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

1.1 Product identifier

Product name: XO4605P (Sure-Start HP-199)

Trade name(s): Sure-Start HP-199 (XO4605P)

Product description: Liquid fuel additive.

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

Identified use(s): Liquid fuel additive.

Uses advised against: Follow supplier's recommendations on correct use of the product.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Fuel Additive Science Technologies Limited
Unit 24, Atcham Business Park,
Upton Magna, Shrewsbury,
Shropshire, SY4 4UG

Telephone: +44 (0)1743 761 415

E-mail: info@fastexocet.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0) 333 333 9962 (UK number, 24 hours, 7 days)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Asp. Tox. 1; H304

STOT SE 3; H336

Carc. 2; H351

Aquatic Chronic 2; H411

EUH066

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2.2 Label elements

2.2.1. Label according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal Word:

Danger.

Hazard Statement(s):

H304: May be fatal if swallowed and enters airways.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P201: Obtain special instructions before use.
P271: Use only outdoors or in a well-ventilated area.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331: Do NOT induce vomiting.
P405: Store locked up.
P501: Dispose of contents/container to: disposal should be in accordance with local, state or national legislation.

Supplemental Hazard information (EU):

EUH066: Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

The product does not contain substances assessed to be PBT or vPvB.

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SECTION 3: Composition

3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))
Hydrocarbons, C10, aromatics, >1% naphthalene <i>REACH: 01-2119463588-24-XXXX</i>	60-98	-	919-284-0	-	Asp. Tox. 1; H304 STOT SE 3; H336 Carc 2; H351 Aquatic Chronic 2; H411 EUH066
Solvent naphtha (petroleum), heavy arom.	0-3	64742-94-5	265-198-5	649-424-00-3	Asp. Tox. 1; H304 Skin Irrit 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
1,2,4-Trimethylbenzene	< 1	95-63-6	202-436-9	601-043-00-3	Flam Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 2; H411
Solvent naphtha (petroleum), light arom.	< 1	64742-95-6	265-199-0	649-356-00-4	Flam Liq. 3; H226 Asp Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411
Naphthalene	< 1	91-20-3	202-049-5	601-052-00-2	Acute Tox 4; H302 Carc 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
1,3,5-Trimethylbenzene	< 1	108-67-8	203-604-4	601-025-00-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit; H319 STOT SE 3; H335 Aquatic Chronic 2; H411
Xylene	<1	1330-20-7	215-535-7	601-022-00-9	Flam. Liq. 3, H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373

See Section 16 for full description of R phrases and H statements.

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SECTION 4: First Aid Measures

4.1 Description of first aid measures

- INHALATION:** Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, get medical advice/attention.
- SKIN CONTACT:** Remove contaminated clothing immediately. Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical advice/attention.
- EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing making sure to rinse under eyelids. If eye irritation persists, get medical advice/attention.
- INGESTION:** Obtain immediate medical attention. Do not induce vomiting. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Provided the patient is conscious wash mouth out with water and provide patient with 200-300 mL of water to drink. Never give anything by mouth to an unconscious person.

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

Repeated exposure may cause skin dryness or cracking. Eye contact may cause slight irritation, watering and redness. Inhalation of vapours may cause drowsiness or dizziness. If swallowed, aspiration into lungs may result in chemical pneumonia. Ingestion may cause discomfort.

Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatments needed:

In case of accident or if patient feels unwell, seek medical advice immediately. If swallowed, patient should be monitored for signs of breathing difficulty as effects of aspiration may be delayed for up to 48 hours. If breathing is laboured, oxygen should be administered by qualified personnel.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

- Suitable extinguishing media:** Foam, CO₂ or dry powder.
For large fires, use water spray.
- Unsuitable extinguishing media:** Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Combustible liquid and vapour: Vapour may form explosive mixture with air. Vapour is heavier than air and may accumulate in confined spaces. Containers exposed to heat may burst due to increase in pressure.

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Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides, iron oxides, various hydrocarbons.

5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Move undamaged containers from fire area if this can be done safely. Keep fire exposed containers cool by spraying with water. Do not allow product or run-off to enter drains, sewers or watercourses.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Eliminate sources of ignition. Ensure adequate ventilation. Evacuate area and keep upwind. Avoid contact with skin, eyes or clothing. Avoid breathing vapours/spray. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate. (See Section 8).

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated clothing should be thoroughly cleaned.

6.2 Environmental precautions

Collect spillage. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and clearing up

6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning up

Use sand, earth or any suitable non-combustible adsorbent material to adsorb spillages. Using non-sparking tools transfer the contaminated adsorbent material into a container for disposal. The containers used should be plastic-lined sealable drums. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

6.3.3 Other advice

None.

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6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Use only outdoors or in a well-ventilated area. Provide adequate ventilation, including local extraction, to ensure occupational exposure limits are not exceeded. Avoid breathing vapours/spray. Avoid contact with skin, eyes or clothing. Wear suitable personal protective equipment (See Section 8).

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Contaminated clothing should be thoroughly cleaned or disposed of as hazardous waste.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Protect from direct sunlight. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store only in the original container. Empty containers retain product residue and can be hazardous.

Keep away from oxidising agents.

7.3 Specific end uses(s)

Liquid fuel additive.

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Workplace exposure limits

Source: EH40/2005, 2nd Ed., 2011.

Substance	CAS No.	LTEL (8 hr TWA)		STEL (15 min)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
Trimethylbenzenes, all isomers or mixtures	25551-13-7	25	125	-	-	-
Xylene, <i>o</i> -, <i>m</i> -, <i>p</i> - or mixed isomers	1330-20-7	50	220	100	441	Sk, BMGV

Sk: Can be absorbed through the skin., BMGV: Biological monitoring guidance value.

Biological monitoring guidance values (BMGVs)

Source: EH40/2005.

Substance	Biological monitoring guidance values	Sampling time
Xylene, <i>o</i> -, <i>m</i> -, <i>p</i> - or mixed isomers	650 mmol methyl hippuric acid/mol creatinine in urine	Post shift

Community exposure limits

Sources: ILV: 91/322/EEC; IOELV: 2000/39/EC, 2006/15/EC, 2009/161/EU

Substance	Exposure Limit Type	CAS No.	LTEL (8 hr TWA)		STEL (15 min)		Comments
			ppm	mg/m ³	ppm	mg/m ³	
1,2,4-Trimethylbenzene	IOELV	95-63-6	20	100	-	-	-
Mesitylene (1,3,5-Trimethylbenzene)	IOELV	108-67-8	20	100	-	-	-
Naphthalene	ILV	91-20-3	10	30	-	-	-
Xylene, mixed isomers, pure	IOELV	1330-20-7	50	221	100	442	Skin

IOELV: Indicative Occupational Exposure Limit Value, ILV: Indicative Limit Value

Skin: Can be absorbed through the skin.

DNELs (Workers)

Substance	Route	Acute/short-term exposure		Long-term exposure	
		Systemic effects	Local effects	Systemic effects	Local effects
Hydrocarbons, C10, aromatics, < 1% naphthalene	Inhalation	-	-	151 mg/m ³	-
	Dermal	-	-	12.5 mg/kg/day	-
1,2,4-Trimethylbenzene	Inhalation	100 mg/m ³	100 mg/m ³	100 mg/m ³	100 mg/m ³
	Dermal	-	-	16171 mg/kg bw/day	-
Naphthalene	Inhalation	-	-	25 mg/m ³	25 mg/m ³
	Dermal	-	-	3.57 mg/kg bw/day	-
1,3,5-Trimethylbenzene	Inhalation	100 mg/m ³	100 mg/m ³	100 mg/m ³	100 mg/m ³
	Dermal	-	-	16171 mg/kg bw/day	-

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PNECs

Substance	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent releases)	Sewage Treatment Plants	Sediment (fresh water)	Sediment (marine water)	Soil	Oral
1,2,4-Trimethylbenzene	0.12 mg/L	0.12 mg/L	0.12 mg/L	2.41 mg/L	13.56 mg/kg sediment dw	13.56 mg/kg sediment dw	2.34 mg/kg soil dw	-
Naphthalene	0.0024 mg/L	0.0024 mg/L	0.0020 mg/L	2.9 mg/L	0.0672 mg/kg sediment dw	0.0672 mg/kg sediment dw	0.0533 mg/kg soil dw	-
1,3,5-Trimethylbenzene	0.101 mg/L	0.101 mg/L	0.101 mg/L	2.02 mg/L	7.86 mg/kg sediment dw	7.86 mg/kg sediment dw	1.34 mg/kg soil dw	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including local extraction, to ensure that occupational exposure limits are not exceeded.

8.2.2 Personal protection

Eye protection: Goggles or safety glasses with side shields giving complete protection to eyes. (EN 166)

Skin protection:

Hand protection: Chemical resistant gloves (EN 374). Contact glove supplier to confirm suitable glove material, thickness and breakthrough times.

Other: Long sleeve protective clothing. Plastic apron. Rubber boots.

Respiratory protection: In the case of insufficient ventilation, wear respiratory equipment suitable for organic gases and vapours with a boiling point above 65°C. (EN 14387)

Thermal hazards: Wear suitable temperature resistant gloves and protective clothing if the product is heated.

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

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SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Red brown liquid.
Odour:	Aromatic.
Odour threshold:	Not available.
pH:	Not applicable.
Melting/freezing point:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: < -10°C
Initial boiling point and boiling range:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: 160 – 230°C (101 kPa)
Flash point:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: > 62°C (closed cup)
Evaporation rate:	Not available.
Flammability (solid; gas):	Not applicable.
Upper/lower flammability or explosive limits:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: 0.6% – 7.0% (v/v)
Vapour pressure:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: 0.06 kPa (20°C)
Vapour density:	> 1 (Air = 1)
Relative density:	0.8 – 1 (Water = 1)
Solubility(ies):	Negligible in water. Miscible in aromatic solvents.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: > 400°C
Decomposition temperature:	Not available.
Viscosity:	Not available. Hydrocarbons, C10, aromatics, >1% naphthalene: 0.8 - 2.0 cSt (20°C)
Explosive properties:	Not explosive. Vapour may form explosive mixture in air.

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Oxidising properties: Not oxidising.

9.2 Other information

None.

SECTION 10: Stability and Reactivity

- 10.1 Reactivity** Reacts with oxidising agents.
- 10.2 Chemical stability** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** No hazardous reactions expected during normal use.
- 10.4 Conditions to avoid** Keep away from sources of ignition, hot surfaces, direct sunlight. Contact with incompatible materials.
- 10.5 Incompatible materials** Oxidising agents.
- 10.6 Hazardous decomposition products** Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides, iron oxides, various hydrocarbons.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

- Acute toxicity** No data available on the mixture. The following data are for the product components:
- Hydrocarbons, C10, aromatics, >1% naphthalene:
LD₅₀ (oral/rat): 6,318 mg/kg
LD₅₀ (dermal/rabbit): > 2,000 mg/kg
LC₅₀ (inhalation/rat): > 4,688 mg/m³
- Kerosine (petroleum) (CAS 8008-20-6) - similar to Solvent naphtha (petroleum), heavy arom.:
LC₅₀ (inhalation/rat): > 5.28 mg/L (4 h) air (analytical)
- 1,2,4-Trimethylbenzene:
LD₅₀ (oral/rat): 6,000 mg/kg
LD₅₀ (inhalation/rat): 10.2 mg/L, 4 h (read-across from Shellsol A, hydrocarbon solvent (essentially C9 isomers, particularly trimethylbenzenes))
- Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- Serious eye damage/irritation** Not classified. May cause slight eye irritation.

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Skin sensitisation	Not classified. The product does not contain substances classified as skin sensitisers above the classification thresholds.
Respiratory sensitisation	Not classified. The product does not contain substances classified as respiratory sensitisers above the classification thresholds.
Germ cell mutagenicity	Not classified. The product does not contain substances classified as mutagenic above the classification thresholds.
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified. The product does not contain substances classified as toxic for reproduction above the classification thresholds.
Specific Target Organ Toxicity – single exposure	May cause drowsiness or dizziness.
Specific Target Organ Toxicity – repeated exposure	Not classified. The product does not contain substances classified for specific target organ toxicity after repeated exposure above the classification thresholds.
Aspiration hazard	May be fatal if swallowed and enters airways. Risk of aspiration into lungs resulting in chemical pneumonia.
Information on likely routes of exposure	
Inhalation	May cause drowsiness or dizziness.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause slight eye irritation.
Ingestion	May be fatal if swallowed and enters airways. Risk of aspiration into lungs resulting in chemical pneumonia. Ingestion may cause discomfort.
Symptoms related to the physical, chemical and toxicological characteristics	Repeated exposure may cause skin dryness or cracking. Eye contact may cause slight irritation, watering and redness. Inhalation of vapours may cause drowsiness or dizziness. If swallowed, aspiration into lungs may result in chemical pneumonia. Ingestion may cause discomfort.
Mixture versus substance information	No data available.
Other information	None.

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SECTION 12: Ecological Information

- 12.1 Toxicity** Toxic to aquatic life with long lasting effects.
- No data available on the mixture. The following data are for the product components:
- Hydrocarbons, C10, aromatics, >1% naphthalene:
LC₅₀ (*Oncorhynchus mykiss*): 2-5 mg/L, 96 h
EC₅₀ (*Daphnia magna*): < 10 mg/L, 48 h
IC₅₀ (Algae): 1-3 mg/L, 72 h
EC₅₀ (Aquatic plants): < 3 mg/L, 72 h
EC₅₀ (*Tetrahymena pyriformis*): 1.892 mg/L, 48 h
NOELR (Fish): 0.487 mg/L, 28 days
NOELR (Invertebrates): 0.856 mg/L, 21 days
- Solvent naphtha (petroleum), heavy arom.:
LL₅₀ (*Oncorhynchus mykiss*): 2-5 mg/l, 96h (WAF)
NOEL (*Oncorhynchus mykiss*): 2.0 mg/l, 96h (WAF)
NOEL (Freshwater fish): 0.098 mg/L, 28 days (estimated – PETROTOX QSAR model)
- Naphthalene:
LC₅₀ (*Pimephales promelas*): 6.08 mg/L, 96 h
LC₅₀ (*Oncorhynchus mykiss*): 1.6 mg/L, 96 h
LC₅₀ (*Oncorhynchus kisutch*): 2.1 mg/L, 96 h
EC₅₀ (*Daphnia magna*): 2.16 mg/L, 48 h
NOEC (*Oncorhynchus kisutch*): 0.37 mg/L, 40 days
NOEC (*Daphnia pulex*): 0.59 mg/L, 125 days
- 12.2 Persistence and degradability** No data available on the mixture. The following data are for the product components:
- Hydrocarbons, C10, aromatics, >1% naphthalene:
Inherently biodegradable.
- 12.3 Bioaccumulative potential** No data available.
- 12.4 Mobility in soil** No data available.
- 12.5 Results of PBT and vPvB assessment** The product does not contain substances assessed to be PBT or vPvB.
- 12.6 Other adverse effects** None known.

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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor. Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14: Transport Information

ADR

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains hydrocarbons, C10, aromatics, >1% naphthalene)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

ADN

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains hydrocarbons, C10, aromatics, >1% naphthalene)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes
14.6	Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

RID

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains hydrocarbons, C10, aromatics, >1% naphthalene)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental hazards	Yes

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14.6 Special precautions for the user Read SDS and supplier instructions on correct use of the product.

IATA/ICAO

14.1 UN Number 3082

14.2 UN Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains hydrocarbons, C10, aromatics, >1% naphthalene)

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environmental hazards Yes

14.6 Special precautions for the user Read SDS and supplier instructions on correct use of the product.

IMDG

14.1 UN Number 3082

14.2 UN Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains hydrocarbons, C10, aromatics, >1% naphthalene)

14.3 Transport hazard class(es) 9

14.4 Packing group III

14.5 Environmental hazards Marine pollutant.

14.6 Special precautions for the user Read SDS and supplier instructions on correct use of the product.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code The product is not intended to be transported in bulk.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.

15.2 Chemical Safety Assessment Not applicable.

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SECTION 16: Other Information

Full text of relevant H-statements:

Hazard Statement(s):	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.
Supplemental Hazard information (EU):	EUH066: Repeated exposure may cause skin dryness or cracking.

Abbreviations:

CAS:	Chemical Abstracts Service;
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC ₅₀ :	Effective Concentration 50%
EL ₅₀ :	Effective Loading rate 50%
LC ₅₀ :	Lethal Concentration 50%
LD ₅₀ :	Lethal Dose 50%
LL ₅₀ :	Lethal Loading rate 50%
LOEL:	Lowest Observed Effect Level
NOEL:	No Observed Effect Level
NOELR:	No Observable Effect Loading Rate
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	Very Persistent and Very Bioaccumulative.
WAF:	Water Accommodated Fraction.

References:

Supplier's Safety Data Sheets for ingredients
ECHA REACH dossiers
Approved Classification and Labelling Guide
Regulation (EC) No. 1272/2008 of the European Parliament and of the council.

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