

Safety Data Sheet

ACCORDING TO COMMISSION REGULATION (EU) 2020/878 and UK REACH

Date 16/05/2025. Version 3

XO1414HO

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

1.1 Product identifier

Product name	XO1414HO
Trade name	Premium Protect
Product description	Liquid fuel additive
Contains	Hydrocarbons, C10, aromatics Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO] Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol N,N'-Disalicylidene-1,2-propanediamine

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

Identified use(s)	Liquid fuel additive. Additive for use by professional users only.
Uses advised against	Additive not for consumer use. 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
Address	Unit 29, Atcham Business Park, Upton Magna, Shrewsbury, Shropshire
Postcode	SY4 4UG
Telephone	+44 (0)1743 761415
E-mail address of competent person responsible	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)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Skin Corr. 1	H314	Causes severe skin burns and eye damage.
Skin Sens. 1A	H317	May cause an allergic skin reaction.
Eye Dam. 1	H318	Causes serious eye damage.
STOT SE 3	H336	May cause drowsiness or dizziness.
Muta. 2	H341	Suspected of causing genetic defects.
Carc. 1B	H350	May cause cancer.
Repr. Tox. 1B	H360FD	May damage fertility. May damage the unborn child.
STOT RE 2	H373	May cause damage to organs (gastrointestinal tract, respiratory tract) through prolonged or repeated exposure.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictogram(s)



Signal Word

Danger

Hazard Statement(s)

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs (gastrointestinal tract, respiratory tract) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary Statement(s)	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
	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].
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313	IF exposed or concerned: Get medical advice/attention.
	P310	Immediately call a POISON CENTER/doctor.
	P312	Call a POISON CENTRE/ doctor if you feel unwell.
	P331	Do NOT induce vomiting.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.

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P501 Dispose of contents/container in accordance with local, state or national legislation.

Supplemental information on the label

Additional labelling requirements Restricted to professional users.

Supplementary Hazard Information (EU) EUH071 Corrosive to the respiratory tract.

Hazardous components which must be on the label Hydrocarbons, C10, aromatics
Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol
N,N'-Disalicylidene-1,2-propanediamine

2.3 Other hazards

Combustible liquid. Spillages make surfaces slippery.

This mixture does not contain substances that are PBT or vPvB. This mixture does not cause endocrine disruption.

This mixture contains p-tert-butylphenol which is identified as endocrine disruptor with environmental effects.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Identification Number(s) CAS No. / EC No. / Index No.	REACH Registration No.	% [weight]	Classification in accordance with Regulation (EC) No 1272/2008 (CLP)	Additional information*
Hydrocarbons, C10 aromatics, <1% naphthalene	64742-94-5 (**) 918-811-1 - -	01-2119463583-34-0001 UK-01-0329875101-1-0002	50 – 70	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	EUH066 WEL
Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	- - 612-290-00-1	-	20 – 30	Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 1B; H350 STOT RE 2; H373 (gastrointestinal tract, respiratory tract) Aquatic Chronic 2; H411	EUH071

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Chemical name	Identification Number(s) CAS No. / EC No. / Index No.	REACH Registration No.	% [weight]	Classification in accordance with Regulation (EC) No 1272/2008 (CLP)	Additional information*
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	128-39-2, 732-26-3 907-745-9 -	01-2119538013-51	5 – 10	Eye Dam. 1; H318 Repr. 1B; H360D STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M (acute) =1 M (chronic) =1
Hydrocarbons, C10, aromatics, >1% naphthalene	919-284-0 - -	01-2119463588-24	< 5	Asp. Tox. 1; H304 STOT SE 3; H336 Carc. 2; H351 Aquatic Chronic 2; H411	EUH066 WEL
N,N'-Disalicylidene-1,2-propanediamine	94-91-7 202-374-2 -	01-2119958970-25	≤ 1.5	Acute Tox. 4; H302 Skin Sens. 1; H317 Repr. 1B; H360FD Aquatic Chronic 3; H412	-
4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	67953-82-6 164-183-5 -	-	< 1.5	Skin Irrit. 2; H315 Eye Irrit. 2; H319	-
Petroleum naphtha	64742-47-8 265-149-8 649-22-00-2	-	< 1.5	Asp. Tox. 1; H304	WEL
2-Ethylhexan-1-ol	104-76-7 203-234-3 -	-	< 0.5	Acute Tox. 4; H332 Skin Irrit. 2; H315 STOT SE 3; H335 Eye Dam. 2; H319 Aquatic Chronic 3; H412	WEL
Naphthalene	91-20-3 202-249-5 601-052-00-2	-	< 0.5	Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M(acute) = 1 M(chronic) = 1 WEL
Hydrocarbons, C9, aromatics	64742-95-6 (**) 128601-23-0, 918-668-5 -	01-2119455851-35	≤ 0.1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411	EUH066 WEL
1,2,4-trimethylbenzene	95-63-6 202-436-9 601-043-00-3	-	< 0.1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 2; H411	WEL
p-tert-butylphenol (***)	98-54-4 202-679-0 -	-	< 0.1	Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2, H361; (oral) Aquatic Chronic 1; H410	WEL M = 1

* Includes information relating to specific concentration limits, M-factors, ATEs, particle characteristics, supplementary hazard information, and indicates workplace exposure limits shown in Section 8.

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** Identified as CAS 64742-94-5 and 64742-95-6 outside the EU.

*** Identified as endocrine disruptor with environmental effects.

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	If medical advice is needed, have the safety data sheet or label to hand. If exposed or concerned, get medical advice/attention.
Following inhalation	May cause drowsiness or dizziness. Corrosive to the respiratory tract. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/ doctor if you feel unwell.
Following skin contact	Causes severe skin burns. May cause an allergic skin reaction. Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Following eye contact	Causes serious eye damage. Immediately call a POISON CENTER/doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Following ingestion	May be fatal if swallowed and enters airways. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, the patient should lean forward to reduce the risk of aspiration.
Self-protection of the first aider	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury, and surroundings.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness.

Suspected of causing genetic defects. May cause cancer. May damage fertility. May damage the unborn child. May cause damage to organs (gastrointestinal tract, respiratory tract) through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatments needed

Treat symptomatically. 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: Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing media: Foam (alcohol resistant preferably), carbon dioxide (CO₂) or dry powder.

Unsuitable extinguishing media: Do not use water jet or wet chemical fire extinguisher.

5.2 Special hazards arising from the substance or mixture

Combustible liquid.

Vapour may form explosive mixture with air. Vapour is heavier than air and may accumulate in confined spaces. Risk of explosion if heated under confinement. Containers exposed to heat may burst due to increase in pressure.

This material is toxic to aquatic life with long lasting effects; fire water contaminated with the material must be contained. Do not empty into drains.

Hazardous combustion products

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

5.3 Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Evacuate area. Move containers from the fire area if it is safe to do so.

Fight any fire from a safe distance. Cool containers exposed to flames with plenty of water until well after the fire is out.

This material is toxic to aquatic life with long lasting effects; do not allow product or run-off to enter drains, sewers or watercourses.

Flash point: 69°C.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas as a priority. Eliminate sources of ignition. Ensure adequate ventilation. Do not touch or walk through spilt material. Avoid contact with skin, eyes, or clothing. Do not breath fume/vapours. The vapour is heavier than air; it will concentrate in low lying areas, beware of pits and confined spaces. No smoking.

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For emergency responders

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots and protective clothing.

Keep unnecessary personnel away. Wear suitable protective clothing and an appropriate respirator (see Section 8). Do not touch or walk through spilt material. Avoid contact with skin, eyes, or clothing. Do not breath fume/vapours. The vapour is heavier than air; it will concentrate in low lying areas, beware of pits and confined spaces.

6.2 Environmental precautions

Toxic to aquatic life with long lasting effects. 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 cleaning up

For containment

Eliminate all ignition sources. Stop the leak if it is safe to do so. Move containers from spill area. Contain the spillage with sand, earth or any suitable adsorbent material.

For cleaning up

Using non-sparking tools transfer the contaminated absorbent material into a UN approved container for disposal as they may pose the same hazard as the spilt product. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

Other advice

Caution – spillage area may be slippery. Collect spillage. Avoid release to the environment.

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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Do not breath fume/vapours. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection (see Section 8).

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

Dispose of contents/container in accordance with local, state or national legislation.

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7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store locked up in a well-ventilated place. Keep cool and keep container tightly closed. Store only in the original container. Empty containers retain product residue and can be hazardous. Protect from direct sunlight and from frost. Keep away from incompatible materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Keep away from oxidising agents.

Maximum handling temperature: 40 °C.

7.3 Specific end uses(s)

Liquid fuel additive.

Restricted to professional users.

The restriction for professional users no longer applies if the product is added to the following fuels and oil products:

- motor fuels which are covered by Directive 98/70/EC,
- mineral oil products intended for use as fuel in mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles).

Follow supplier's recommendations on correct use of the product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Substance	Source	Limit value - 8 hours		Limit value - short term*		Comments
		ppm	mg/m ³	ppm	mg/m ³	
Hydrocarbons, C10 aromatics, <1% naphthalene	EH 40	-	500	-	-	Total hydrocarbon vapour (1)
Hydrocarbons C10, aromatics, > 1% naphthalene	EH 40	-	500	-	-	Total hydrocarbon vapour (1)
Petroleum naphtha	EH 40	-	1200	-	-	Total hydrocarbon vapour (1)
2-Ethylhexan-1-ol	EH40	1	5.4	-	-	UK
	GESTIS ILV	1	5.4	-	-	Ireland; European Union
Naphthalene	GESTIS ILV	10	50	-	-	Ireland
		10	53	15	80	UK (2)
Hydrocarbons, C9, aromatics	EH 40	-	500	-	-	Total hydrocarbon vapour (1)

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1,2,4-trimethylbenzene	GESTIS ILV	20	100	-	-	European Union
Trimethylbenzenes, all isomers or mixtures	EH40	25	125	-	-	UK
Formaldehyde	GESTIS ILV	0.3	0.37	0.6	0.74	European Union (1)
	EH40	2	2.5	2	2.5	UK (Carc)

Comments

* Short term is 15 minutes unless otherwise specified

- Hydrocarbon solvents supplied as a complex mixture, HSE ACTS procedure, see EH40, paragraphs 84-88
- 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 are omitted from the published 2005 list.

Recommended Naphthalene CoRAP: Substance Evaluation Conclusion and Report

Derived No-Effect Level (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	No hazard identified	No hazard identified	151 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	12.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	Inhalation	-	-	-	-
	Dermal	-	-	-	-
	Eyes	-	-	-	-
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol.	Inhalation	-	-	3.5 mg/m ³ repeated dose toxicity	-
	Dermal	-	-	0.500 mg/kg bw/day repeated dose toxicity	-
	Eyes	High hazard (no threshold derived)	High hazard (no threshold derived)	High hazard (no threshold derived)	High hazard (no threshold derived)
Hydrocarbons, C10, aromatics, >1% naphthalene	Inhalation	No hazard identified	No hazard identified	151 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	12.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
N,N'-Disalicylidene-1,2-propanediamine	Inhalation	No hazard identified	No hazard identified	3.11 mg/m ³ developmental toxicity/teratogenicity	No hazard identified
	Dermal	No hazard identified	High hazard (no threshold derived)	0.880 mg/kg bw/day developmental toxicity/teratogenicity	No hazard identified

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Substance	Route	Acute/short-term exposure		Long-term exposure	
		Systemic effects	Local effects	Systemic effects	Local effects
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	Inhalation	-	-	-	-
	Dermal	-	-	-	-
	Eyes	-	-	-	-
Petroleum naphtha	Inhalation	No hazard identified	No hazard identified	No hazard identified	No hazard identified
	Dermal	No hazard identified	Low hazard (no threshold derived)	No hazard identified	Low hazard (no threshold derived)
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
2-Ethylhexan-1-ol	Inhalation	Low hazard (repeated dose toxicity)	53.2 mg/m ³ irritation (respiratory tract)	12.8 mg/m ³ repeated dose toxicity	53.2 mg/m ³ irritation (respiratory tract)
	Dermal	No hazard identified	Medium hazard (no threshold derived)	23 mg/kg bw/day (repeated dose toxicity)	Medium hazard (no threshold derived)
	Eyes	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
Naphthalene	Inhalation	Low hazard (no threshold derived)	No hazard identified	25 mg/m ³ repeated dose toxicity	25 mg/m ³ irritation (respiratory tract)
	Dermal	Low hazard (no threshold derived)	No hazard identified	3.57 mg/kg bw/day repeated dose toxicity	No hazard identified
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Hydrocarbons, C9, aromatics	Inhalation	No hazard identified	No hazard identified	151 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	12.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Eyes	No hazard identified	No hazard identified	No hazard identified	No hazard identified
1,2,4-trimethylbenzene	Inhalation	100 mg/m ³	100 mg/m ³	100 mg/m ³ repeated dose toxicity	100 mg/m ³ irritation (respiratory tract)
	Dermal	-	-	16,171 mg/kg bw/day	-
	Eyes	-	-	-	-
p-tert-butylphenol	Inhalation	Low hazard (no threshold derived)	No hazard identified	0.500 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	0.071 mg/kg bw/day repeated dose toxicity	Medium hazard (no threshold derived)
	Eyes	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)

Derived No-Effect Level (DNELs) General population

Substance	Route	Acute/short-term exposure		Long-term exposure	
		Systemic effects	Local effects	Systemic effects	Local effects
Hydrocarbons, C10 aromatics, <1% naphthalene	Inhalation	No hazard identified	No hazard identified	32 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	7.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Oral	No hazard identified	-	7.5 mg/kg bw/day repeated dose toxicity	-

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		Systemic effects	Local effects	Systemic effects	Local effects
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	Inhalation	-	-	-	-
	Dermal	-	-	-	-
	Oral	-	-	-	-
	Eye	-	-	-	-
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butyl phenol	Inhalation	-	-	-	-
	Dermal	-	-	-	-
	Oral	-	-	-	-
	Eye	-	-	-	-
Hydrocarbons, C10, aromatics, >1% naphthalene	Inhalation	No hazard identified	No hazard identified	32 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	7.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Oral	No hazard identified	-	7.5 mg/kg bw/day repeated dose toxicity	-
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
N,N'-Disalicylidene-1,2-propanediamine	Inhalation	No hazard identified	No hazard identified	0.760 mg/m ³ developmental toxicity/teratogenicity	No hazard identified
	Dermal	No hazard identified	High hazard (no threshold derived)	0.440 mg/kg bw/day developmental toxicity/teratogenicity	No hazard identified
	Oral	No hazard identified	-	0.220 mg/kg bw/day developmental toxicity/teratogenicity	-
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	Inhalation	-	-	-	-
	Dermal	-	-	-	-
	Oral	-	-	-	-
	Eye	-	-	-	-
Petroleum naphtha	Inhalation	No hazard identified	No hazard identified	No hazard identified	No hazard identified
	Dermal	No hazard identified	Low hazard (no threshold derived)	No hazard identified	Low hazard (no threshold derived)
	Oral	No hazard identified	-	No hazard identified	-
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
2-Ethylhexan-1-ol	Inhalation	Low hazard (no threshold derived)	26.6 mg/m ³ irritation (respiratory tract)	2.3 mg/m ³ repeated dose toxicity	26.6 mg/m ³ irritation (respiratory tract)
	Dermal	No hazard identified	Medium hazard (no threshold derived)	11.4 mg/kg bw/day repeated dose toxicity	Medium hazard (no threshold derived)
	Oral	No hazard identified	-	1.1 mg/kg bw/day repeated dose toxicity	-
	Eye	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
Naphthalene	Inhalation	No hazard identified	No hazard identified	No hazard identified	No hazard identified

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Substance	Route	Acute/short-term exposure		Long-term exposure	
		Systemic effects	Local effects	Systemic effects	Local effects
	Dermal	No hazard identified	No hazard identified	No hazard identified	No hazard identified
	Oral	No hazard identified	No hazard identified	No hazard identified	No hazard identified
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Hydrocarbons, C9, aromatics	Inhalation	No hazard identified	No hazard identified	32 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	No hazard identified	No hazard identified	7.5 mg/kg bw/day repeated dose toxicity	No hazard identified
	Oral	No hazard identified	-	7.5 mg/kg bw/day repeated dose toxicity	-
	Eye	No hazard identified	No hazard identified	No hazard identified	No hazard identified
1,2,4-trimethylbenzene	Inhalation	29.4 mg/m ³	29.4 mg/m ³	29.4 mg/m ³ repeated dose toxicity	29.4 mg/m ³ irritation (respiratory tract)
	Dermal	-	-	9 512 mg/kg bw/day repeated dose toxicity	-
	Oral	-	-	15 mg/kg bw/day	-
	Eye	-	-	-	-
p-tert-butylphenol	Inhalation	Low hazard (no threshold derived)	No hazard identified	0.090 mg/m ³ repeated dose toxicity	No hazard identified
	Dermal	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	0.026 mg/kg bw/day repeated dose toxicity	Medium hazard (no threshold derived)
	Oral	Low hazard (no threshold derived)	-	0.026 mg/kg bw/day repeated dose toxicity	-
	Eye	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)

Predicted No Effect Concentration (PNECs)

Substance	Hydrocarbons, C10 aromatics, <1% naphthalene	Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	Hydrocarbons, C10 aromatics, >1% naphthalene
Aqua, fresh water	No data available: testing technically not feasible	-	0.000300 mg/L	Testing technically not feasible
Intermittent releases, fresh water	No data available: testing technically not feasible	-	-	Testing technically not feasible
Aqua, marine water	No data available: testing technically not feasible	-	0.000030 mg/L	Testing technically not feasible
Intermittent releases, marine water	No data available: testing technically not feasible	-	-	Testing technically not feasible
Sewage treatment plants (STP)	No data available: testing technically not feasible	-	2.4 mg/L	Testing technically not feasible

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Substance	Hydrocarbons, C10 aromatics, <1% naphthalene	Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	Hydrocarbons, C10 aromatics, >1% naphthalene
Aqua, fresh water	No data available: testing technically not feasible	-	0.000300 mg/L	Testing technically not feasible
Intermittent releases, fresh water	No data available: testing technically not feasible	-	-	Testing technically not feasible
Sediment, fresh water	No data available: testing technically not feasible	-	0.090 mg/kg sediment dw	Testing technically not feasible
Sediment, marine water	No data available: testing technically not feasible	-	0.009 mg/kg sediment dw	Testing technically not feasible
Air	No hazard identified	-	-	No hazard identified
Soil	No data available: testing technically not feasible	-	0.044 mg/kg soil dw	Testing technically not feasible
Hazard for Predators	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain	-	8.33 mg/kg food	No potential for bioaccumulation

Substance	N,N'-Disalicylidene-1,2-propanediamine	4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	Petroleum naphtha	2-Ethylhexan-1-ol
Aqua, fresh water	0.00112 mg/L	-	Testing technically not feasible	0.017 mg/L
Intermittent releases, fresh water	0.0112 mg/L	-	Testing technically not feasible	0.170 mg/L
Aqua, marine water	0.00112 mg/L	-	Testing technically not feasible	0.0017 mg/L
Intermittent releases, marine water	0.00112 mg/L	-	Testing technically not feasible	-
Sewage treatment plants (STP)	0.500 mg/L	-	Testing technically not feasible	10 mg/L
Sediment, fresh water	56.8 mg/kg sediment dw	-	Testing technically not feasible	0.284 mg/Kg sediment dw
Sediment, marine water	5.68 mg/kg sediment dw	-	Testing technically not feasible	0.0284 mg/Kg sediment dw
Air	No hazard identified	-	No hazard identified	No hazard identified
Soil	11.4 mg/kg soil dw	-	Testing technically not feasible	0.047 mg/Kg soil dw
Hazard for Predators	No potential for bioaccumulation	-	No potential for bioaccumulation	55 mg/kg food

Substance	Naphthalene	Hydrocarbons, C9, aromatics	1,2,4-trimethylbenzene	p-tert-butylphenol
Aqua, fresh water	0.0024 mg/L	Testing technically not feasible	0.120 mg/L	0.010 mg/L
Intermittent releases, fresh water	0.020 mg/L	Testing technically not feasible	0.120 mg/L	0.048 mg/L
Aqua, marine water	0.0024 mg/L	Testing technically not feasible	0.120 mg/L	0.001 mg/L
Intermittent releases, marine water	-	Testing technically not feasible	-	-
Sewage treatment plants (STP)	2.9 mg/L	Testing technically not feasible	2.41 mg/L	1.5 mg/L
Sediment, fresh water	0.0672 mg/Kg sediment dw	Testing technically not feasible	13.56 mg/kg sediment dw	0.270 mg/kg sediment dw
Sediment, marine water	0.0672 mg/Kg sediment dw	Testing technically not feasible	13.56 mg/kg sediment dw	0.027 mg/kg sediment dw
Air	No hazard identified	No hazard identified	-	No hazard identified
Soil	0.0533 mg/kg soil dw	Testing technically not feasible	2.34 mg/kg soil dw	0.250 mg/kg soil dw
Hazard for Predators	No potential for bioaccumulation	No potential for bioaccumulation	-	46.67 mg/kg food

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to minimise exposure to vapours. It is recommended to consider routes of exposure and potential of the chemical to cause harm when performing a workplace COSHH assessment.

Individual protection measures, such as personal protective equipment

Eye/face protection



Safety glasses with side shields giving complete protection to eyes (EN 166), or face shield.

Skin protection
Hand protection



Chemical resistant gloves (EN 374). Contact glove supplier to confirm suitable glove material, thickness, and breakthrough times. If contact with forearms is likely, wear gauntlet-style gloves.

Other

Long sleeve chemical resistant protective clothing. Plastic apron. Nitrile rubber boots.

Respiratory protection



In the case of insufficient ventilation, wear respiratory equipment. Suitable respiratory protection for lower concentrations or short-term effect: Organic vapour filter type ABEK-P3 (EN 14387).

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Thermal hazards

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

Environmental exposure controls

This mixture contains p-tert-butylphenol which is identified as endocrine disruptor with environmental effects. This mixture contains 2,4,6- tri-tert-butylphenol that meets the Persistent, Bioaccumulative and Toxic (PBT) and very Persistent and very Bioaccumulative) (vPvB) criteria.

Contains > 5 - < 10 % reaction mass of 2,6-di-tertbutylphenol and 2,4,6-tri-tert-butyl phenol which is possibly Persistent, Bioaccumulative and Toxic.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Inform environmental manager of all incidents involving this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Physical state	Liquid
(b) Colour	Amber
(c) Odour	Aromatic
Odour threshold	Not available.
(d) Melting point/freezing point	Hydrocarbons, C10, aromatics, <1% naphthalene: -51 °C at 101.325 kPa.
(e) Boiling point or initial boiling point and boiling range	Hydrocarbons, C10, aromatics, <1% naphthalene: 179 - 193 °C
(f) Flammability	Combustible liquid
(g) Lower and upper explosion limit	Hydrocarbons, C10, aromatics, <1% naphthalene: 0.6 - 7.0 % v/v (calculated)
(h) Flash point	69 °C
(i) Auto-ignition temperature	Hydrocarbons, C10, aromatics, <1% naphthalene: > 400 °C
(j) Decomposition temperature	Not available.
(k) pH	Not applicable based on solubility in water (immiscible in water).
(l) Kinematic viscosity	1.26 cSt at 40 °C
(m) Solubility	Negligible in water. Miscible in aromatic solvents.
(n) Partition coefficient n-octanol/water (log value)	Not available.
(o) Vapour pressure	Hydrocarbons, C10, aromatics, <1% naphthalene: 0.09 kPa at 20°C
(p) Density and/or relative density	0.9394g/cm ³ at 15°C
(q) Relative vapour density	> 1 (air = 1)
(r) Particle characteristics	Not applicable.

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9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions. Risk of explosion if heated under confinement. Decomposes when heated above 100 °C.

10.3. Possibility of hazardous reactions

No hazardous reactions expected during normal use. above 100 °C. Risk of explosion if heated under confinement.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not heat above 100 °C.

10.5. Incompatible materials

Acids, alkalis, reducing and oxidising agents and amines.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity

acute toxicity - oral

Not classified. Based on the available data, the classification criteria are not met.

acute toxicity - dermal

Not classified. Based on the available data, the classification criteria are not met.

acute toxicity - inhalation

Not classified. Based on the available data, the classification criteria are not met.

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The following data are for the relevant product component:

Component	Acute Toxicity		
	Oral	Dermal	Inhalation
Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	LD ₅₀ (rat): 630 mg/kg bw	LD ₅₀ (rabbit): 760 mg/kg bw	LC ₅₀ (4h): 2.00 mg/L (dust/mist, rat)
N,N'-Disalicylidene-1,2-propanediamine	LD ₅₀ 1350 mg/Kg bw	LD ₅₀ > 2000 mg/Kg bw	Not available

Acute toxicity estimate (ATE) for the mixture

ATE (oral) > 2000 mg/Kg

ATE (dermal) > 2000 mg/Kg

ATE (inhalation, dust and mists) > 5 mg/L

(b) skin corrosion/irritation

Skin Corr. 1. Causes severe skin burns and eye damage.

(c) serious eye damage/irritation

Eye Dam. 1. Causes serious eye damage.

(d) respiratory or skin sensitisation
respiratory sensitisation

Not classified. Based on the available data, the classification criteria are not met.

skin sensitisation

Skin Sens. 1A. May cause an allergic skin reaction.

(e) germ cell mutagenicity

Muta. 2. Suspected of causing genetic defects.

(f) carcinogenicity

Carc. 1B. May cause cancer.

(g) reproductive toxicity

Repr. Tox. 1B. May damage fertility. May damage the unborn child.

(h) STOT-single exposure

STOT SE 3. May cause drowsiness or dizziness.

(i) STOT-repeated exposure

STOT RE 2. May cause damage to organs (gastrointestinal tract, respiratory tract) through prolonged or repeated exposure.

(j) aspiration hazard

Asp. Tox. 1. May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Inhalation Inhalation of vapour may cause severe drowsiness and dizziness. Inhalation of vapour may cause severe headaches, nausea, drowsiness, dizziness and irritation to the respiratory tract. Corrosive to the respiratory tract.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Ingestion May be fatal if swallowed and enters airways. Ingestion may cause discomfort and irritation to the mouth and gastrointestinal tract.

Eye contact Causes serious eye damage.

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Symptoms related to the physical, chemical and toxicological characteristics
See above.

11.2 Information on other hazards

This product may release formaldehyde.

Endocrine disrupting properties.

This mixture does not contain substances that cause endocrine disruption for human health.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic chronic 2. Toxic to aquatic life with long lasting effects.

Data on aquatic toxicity for the relevant components

Component name	Data
Hydrocarbons, C10 aromatics, <1% naphthalene	LC ₅₀ /96 h (Oncorhynchus mykiss): 2 – 5 mg/L (WAF) NOELR/28 d (Freshwater fish): 0.441 mg/L (growth, estimated) EC ₅₀ /48 h (Daphnia magna): 3 – 10 mg/L NOELR/21 d (freshwater invertebrate): 0.771 mg/L (reproduction, estimated) EL ₅₀ /72 h (Selenastrum capricornutum): 1 – 3 mg/L (WAF, growth rate and biomass) NOELR/48 h (Tetrahymena pyriformis): 1.718 (estimated, growth inhibition)
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butyl phenol	LC ₅₀ /96h (Oncorhynchus mykiss): 0.3 mg/L EC ₅₀ /48 h (Daphnia magna): 0.4 mg/L ErC ₅₀ /72 h (Selenastrum capricornutum): 4.9 mg/L NOEC (Selenastrum capricornutum): 2.8 mg/L
Hydrocarbons, C10 aromatics, >1% naphthalene	LC ₅₀ /96 h (Oncorhynchus mykiss): 2 – 5 mg/L NOELR/28 d (Freshwater fish): 0.487 mg/L (growth, estimated) EC ₅₀ /48 h (Daphnia magna): 3 – 10 mg/L NOELR/21 d (Daphnia magna): 0.40 mg/L (reproduction, estimated) EL ₅₀ /72 h (Pseudokirchneriella subcapitata): 3.8 – 7.9 mg/L (WAF, growth rate and biomass) NOELR/72 h (Pseudokirchneriella subcapitata): 0.22 mg/L (growth rate and biomass)

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N,N'-Disalicylidene-1,2-propanediamine	LC ₅₀ /96 h (Leuciscus idus): 46 mg/L
	EC ₅₀ /48 h (Daphnia magna): 3.162 mg/L
	EC ₅₀ /72 h (Pseudokirchnerella subcapitata): 1.117 mg/L
	EC ₁₀ /72 h (Pseudokirchnerella subcapitata): 0.116 mg/L
	EC ₅₀ /3 h (microorganisms): 50 mg/L
	EC ₁₀ /3 h (microorganisms): 18 mg/L

12.2. Persistence and degradability

No data available on the mixture. The following data are for the product components:

Component name	Data
Hydrocarbons, C10 aromatics, <1% naphthalene	Inherently biodegradable
Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	Readily biodegradable
	Biodegradation: 89.8 %. Exposure time: 28 d, OECD Test Guideline 301B.
	Chemical Oxygen Demand: 17,887 mg/g, 1% solution
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol.	Not readily biodegradable.
	2,4,6-tri-tert-butyl phenol is persistent and very persistent, based on a weight of-evidence approach.
Hydrocarbons, C10 aromatics, >1% naphthalene	Readily biodegradable
N,N'-Disalicylidene-1,2-propanediamine	Readily biodegradable.
4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	No data available
Petroleum naphtha	Readily to inherently biodegradable
2-Ethylhexan-1-ol	Readily biodegradable
Naphthalene	Readily biodegradable
Hydrocarbons, C9, aromatics	Readily biodegradable.
1,2,4-trimethylbenzene	Readily biodegradable and would not be persistent in the environment.
p-tert-butylphenol	Readily biodegradable

12.3. Bioaccumulative potential

No data available on the mixture. The following data are for the product components:

Component Name	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)
Hydrocarbons, C10 aromatics, <1% naphthalene	≥ 3.17 - 4.18 at 20 °C	The substance is a hydrocarbon UVCB.

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Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	-0.043	No data available
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol.	4.9	2,6-di-tert-butylphenol: 434.9 2,4,6-tri-tert-butylphenol: 3282. 2,4,6-tri-tert-butylphenol has the potential to bioaccumulate
Hydrocarbons, C10 aromatics, >1% naphthalene	≥ 3.17 - ≤ 4.73 at 20 °C	The substance is a hydrocarbon UVCB.
N,N'-Disalicylidene-1,2-propanediamine	ca. 3.6 at 23 °C	No data available
4-Dodecylphenol, ethylenediamine, formaldehyde polymer, compd. With dibutylaminomethanol	No data available	No data available
Petroleum naphtha	1.99 - 18.02	The substance is a hydrocarbon UVCB.
2-Ethylhexan-1-ol	2.9 at 25 °C	38.06 L/Kg
Naphthalene	3.7 at 25 °C	168 (aquatic species)
Hydrocarbons, C9, aromatics	3.03 - 4.73 at 20 °C	The substance is a hydrocarbon UVCB.
1,2,4-trimethylbenzene	ca. 3.63 at 25 °C	243
p-tert-butylphenol	3 at 23 °C	Unlikely to bioaccumulate in the food chain.

12.4. Mobility in soil

The product is insoluble and will float on water. Volatile components of the product will distribute to air. Potential for adsorption to soil and sediment.

12.5. Results of PBT and vPvB assessment

This mixture contains 2,4,6- tri-tert-butylphenol that meets the Persistent, Bioaccumulative and Toxic (PBT) and very Persistent and very Bioaccumulative) (vPvB) criteria.

Contains > 5 - < 10 % reaction mass of 2,6-di-tertbutylphenol and 2,4,6-tri-tert-butyl phenol which is possibly Persistent, Bioaccumulative and Toxic.

12.6. Endocrine disrupting properties

This mixture contains p-tert-butylphenol which is identified as endocrine disruptor with environmental effects.

12.7. Other adverse effects

No known other significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover or recycle if possible. The assignment of a waste code should be assessed based on the waste generated. Before disposing the product, solutions and any by-products, it should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Product and packaging to be disposed of as hazardous waste. Disposal should be in accordance with local, state, or national legislation. Do not landfill.

Empty containers retain product residue and can be hazardous. Dispose of uncleaned empty containers as hazardous waste 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/ADN/RID/IATA/ICAO/IMDG Code

14.1. UN number or ID number

1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S (contains reaction products of paraformaldehyde and 2- hydroxypropylamine (ratio 3:2); [MBO], and hydrocarbons, C10 aromatics).

14.3. Transport hazard class(es)

8

14.4. Packing group

II

14.5. Environmental hazards

ADR/ADN/RID/IATA/ICAO Yes

IMDG Code Marine pollutant

14.6. Special precautions for user

Read SDS and supplier instructions on correct use of the product.

ADR Tunnel Restriction Code (E)

ADR Transport Category 2

IMDG EmS: F-A, S-B

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14.7. Maritime transport in bulk according to IMO instruments

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

UK Regulations

This product has been classified according to Regulation (EC) No 1272/2008 (CLP) amended by GB CLP (UK SI 2019/720 as amended).

This SDS has been prepared in accordance with REACH Regulation (EC) No 1907/2006, amended by UK REACH (UK SI 2019/758 as amended).

Health and Safety at Work Act

The Control of Major Accident Hazards (COMAH) Regulations.

The Control of Substances Hazardous to Health (COSHH) Regulations

Hazardous Waste (England and Wales) Regulations 2005

UK Waste (Circular Economy) (Amendment) Regulations 2020

The Waste (England and Wales) Regulations 2011

Authorisations and/or restrictions on use:

Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

List of REACH restrictions. Entry 28 - Carcinogens: category 1B. Restricted to professional users.

This restriction does not apply to the following fuels and oil products:

- motor fuels which are covered by Directive 98/70/EC,
- mineral oil products intended for use as fuel in mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles).

EU Regulations

This product has been classified according to Regulation (EC) No. 1272/2008 (CLP).

This SDS has been prepared in accordance with REACH Regulation (EC) No 1907/2006 as amended by Commission Regulation EU 2020/878.

Authorisations and/or restrictions on use:

Reaction products of paraformal-dehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

REACH Annex XVII – Restrictions: Entry 28 - Carcinogens: category 1B. Restricted to professional users.

This restriction does not apply to the following fuels and oil products:

- motor fuels which are covered by Directive 98/70/EC,
- mineral oil products intended for use as fuel in mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles).

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Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butyl phenol EC 907-745-9: Possible restriction.

Assessment of regulatory needs report for substances containing 4-tert-butylphenol
Restriction of 4-TBP as a substance, constituent or impurity in other substances, mixtures and articles up to a certain threshold is proposed to ensure that environmental emissions of 4-TBP are minimised. Ideally the entry should address both emissions from the production stage and emissions/exposure as a result of use. The entry would cover a wide scope – potentially all substances containing 4-TBP, including those that may be placed on the market in the future. This would help address the additivity effect of many low-level emissions

Naphthalene EC 202-049-5: Intended to be restricted and entered in Annex XVII to REACH
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles.

Community Rolling Action Plan (CoRAP)

Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butyl phenol EC 907-745-9: concluded
Naphthalene EC 202-049-5: concluded
p-tert-butylphenol EC 202-436-9: concluded

Other EU regulations

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants
No components listed.

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer
No components listed.

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals
No components listed.

Regulation (EU) N° 528/2012 Biocidal Products Regulation
Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO] listed in Article 95 List. Relevant Substance listed generates the active substance formaldehyde.

Waste Framework Directive 2008/98/EC as amended.
Chemical Agents Directive (CAD) Council Directive 98/24/EC as amended.
Occupational Exposure Limits – Indicative OELVs

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.
A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information

i) Indication of changes

Version:	3.0
Issue date:	16/05/2025
Previous Version:	2.0
Issue date of previous version:	19/07/2019

ii) Abbreviations and acronyms

ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
bw	Body weight
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
COSHH	Control of Substances Hazardous to Health Regulations
dw	Dry weight
EC number	European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances number
EC ₅₀	Effective Concentration 50 %
EL ₅₀	Effective Loading rate 50%
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC ₅₀	Lethal Concentration 50%
LD ₅₀	Lethal Dose 50%
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
NOELR	No Observed Effect Loading Rate
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (RID)
SCL	Specific Concentration Limit
UVCB	Substances with unknown or variable composition, complex reaction products, or of biological materials.
vPvB	Very Persistent and Very Bioaccumulative
WAF	Water accommodated Fraction
WEL	Workplace Exposure Limit

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iii) Key literature references and sources for data

Supplier's safety data sheet
Regulation (EC) No. 1272/2008
Regulation (EC) No. 1907/2006
Mandatory Classification and Labelling List (GB MCL List)
Authorisation list Annex XVII UK REACH
Candidate list UK REACH
List of restriction Annex XVII UK REACH
ECHA REACH dossiers
HSE EH40/2005 4th Edition, 2020
GESTIS ILV (<https://limitvalue.ifa.dguv.de/>)
Endocrine Disruptor Lists (<https://edlists.org/>)
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants.
Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer.
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals.
Regulation (EU) N° 528/2012 Biocidal Products Regulation

iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] and GB CLP

Classification according to Regulation (EC) No. 1272/2008 and GB CLP	Classification procedure
Asp. Tox. 1	Calculation method
Skin Corr. 1	Calculation method
Skin Sens. 1A	Calculation method
Eye Dam. 1	Calculation method
STOT SE 3	Calculation method
Muta. 2	Calculation method
Carc. 1B	Calculation method
Repr. Tox. 1B	Calculation method
STOT RE 2	Calculation method
Aquatic Chronic 2	Summation method

v) Relevant H-statements (number and full text)

Flam. Liq. 3; H226	Flammable liquids, category 3. Flammable liquid and vapour
Acute Tox. 4; H302	Acute oral toxicity, category 4. Harmful if swallowed
Asp. Tox. 1; H304	Aspiration hazard, category 1. May be fatal if swallowed and enters airways
Acute Tox. 3; H311	Acute dermal toxicity, category 3. Toxic in contact with skin
Acute Tox. 4; H332	Acute inhalation toxicity, category 4. Harmful if inhaled

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Skin Corr. 1B; H314	Skin corrosion/irritation, category 1B. Causes severe skin burns and eye damage
Skin Irrit. 2; H315	Skin corrosion/irritation, category 2. Causes skin irritation
Skin Sen. 1A; H317	Skin sensitiser, category 1A. May cause an allergic skin reaction
Eye Dam. 1; H318	Serious eye damage/eye irritation, category 1. Causes serious eye damage
Eye Irrit. 2; H319	Serious eye damage/eye irritation, category 2. Causes serious eye irritation
STOT SE 3; H335	Specific target organ toxicity — single exposure, category 3. May cause respiratory irritation
STOT SE 3; H336	Specific target organ toxicity — single exposure, category 3. May cause drowsiness or dizziness
Muta. 2; H341	Germ cell mutagenicity, category 2. Suspected of causing genetic defects
Carc. 1B; H350	Carcinogenicity, category 1B. May cause cancer
Carc. 2; H351	Carcinogenicity, category 2. Suspected of causing cancer
Repr Tox. 1B, H360D	Reproductive toxicity, category 1B. May damage the unborn child
Repr Tox. 1B, H360FD	Reproductive toxicity, category 1B. May damage fertility. May damage the unborn child
Repr. Tox. 2, H361	Reproductive toxicity, category 2. Suspected of damaging fertility or the unborn child
STOT RE 2 (gastrointestinal tract, respiratory tract); H373	Specific target organ toxicity — repeat exposure, category 2. May cause damage to organs (gastrointestinal tract, respiratory tract) through prolonged or repeated exposure
Aquatic Acute 1; H400	Hazardous to the aquatic environment, aquatic acute, category 1. Very toxic to aquatic life
Aquatic Chronic 1; H410	Hazardous to the aquatic environment, aquatic chronic, category 1. Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2; H411	Hazardous to the aquatic environment, aquatic chronic, category 2. Toxic to aquatic life with long lasting effects
Aquatic Chronic 2; H412	Hazardous to the aquatic environment, aquatic chronic, category 3. Harmful to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

vi) Training advice

Always read the label, safety data sheet and product information before use. Do not handle until all safety precautions have been read and understood.

Users should have received chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Provide adequate information, instruction, and training to operators.

vii) Further information

No additional information

End of safety data sheet.

Safety Data Sheet

ACCORDING TO COMMISSION REGULATION (EU) 2020/878 and UK REACH

Date 16/05/2025. Version 3

DISCLAIMER

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.