SAFETY DATA SHEET

Issued: 16/04/2025; Revision No.1
GB Regulation S.I. 2020 No. 1577

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier
Material name : Heating Oil Additive

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product use : Fuel additive. Antioxidant.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:

RPM Marketing (Sussex)
P.O.Box 1
Bexhill On Sea
East Sussex
TN39 3ZQ

Tel. : 01424 224620

Email (for SDSs) : info@tableauproducts.com

1.4 Emergency tel. no.: 01424 575131 Ext 9 Office Hours (Mon- Fri 9am-5pm) only

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
According to GB Classification, Labelling and Packaging of Substances and Mixtures Regulation (CLP):

Physical and Chemical Hazards	Acute Toxicity Category 4, H302
Human health	Skin Irrit. 2, H315, Eye Dam. 2, H319
Environment	Aq. Chron.2, H411

2.2 Label elements
Labelling according to GB CLP:

Signal word: Danger

Contains: 2-Butoxyethanol
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol.

Pictogram(s):

Hazard statements:	H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

2.3 Other hazards None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Index No./ Reg. No	Classification (CLP)	Content 75-85%
2-BUTOXYETHANOL	111-76-2 203-905-0 01-2119475108-36-xxxx	Acute Tox.4; H302+H312+H332 Sk.Irrit.2; H315 Serious Eye Dam 2; H319	
REACTION MASS OF 2,6-DI-TERT-BUTYLPHENOL AND 2,4,6-TRI-TERT-BUTYLPHENOL	- 907-745-9 - 01-2119538013-51-xxxx	Eye Dam.1; H318 Aq. Chron.1; H410	10-15%
HYDROCARBONS, C11-C14, N-ALKANES, CYCLICS, <2% AROMATICS	64742-47-8 926-141-6 - 01-2119463583-34-xxxx	Asp. Tox.1; H304 STOT SE3; H336; Aq. Chron.2; H411 EUH066	3-5%
NANOPARTICULATE CERIUM DIOXIDE	1306-38-3 215-150-4 - 01-2119488673-24-xxxx	Not Classified	0.5-1%

Substance classifications are taken from the GB Mandatory Classification and Labelling (MCL) list, or if absent, from supplier's information.

See Section 16 for the full text of the H-statements noted above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: Harmful if swallowed and aspirated into the lungs.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool containers.
Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
2-Butoxyethanol	123 mg/m3 (25 ppm)	246 mg/m3 (50 ppm)	EH40/2005
Hydrocarbons, C11-C14, N-Alkanes	51 mg/m	-	Manufacturer

DNEL:

Area of application	Exposure route	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	Hydrocarbons, C11-C14, aromatics, <2% naphthalene
Consumer	Oral-Long term systemic effects	No data available	7.5 mg/kg
Consumer	Dermal-Long term systemic effects	No data available	7.5 mg/kg
Consumer	Inhalation-Long term systemic effects	No data available	32 mg/m^3
Workers/ Employees	Dermal-Long term systemic effects	0.5 mg/kg/bw/day	12.5 mg/kg
Workers/ Employees	Inhalation-Long term local effects	3.5 mg/m^3	151 mg/m^3

PNEC:

Environment	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol
Aquatic Compartment	
Fresh water	0.3 µg/l
Marine water	0.03 µg/l
Sewage treatment plant	2.4 mg/l
Dry Sediment – fresh water	0.09 mg/kg
Dry Sediment – marine water	0.009 mg/kg
Terrestrial Compartment	
Dry soil	0.044 mg/kg

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: If vapour levels are high, wear a respirator conforming to EN 140 with type A filter or better.

Hand protection: Wear chemically resistant gloves such as butyl rubber approved to standard EN 374; material thickness 0.5mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Check with glove manufacturer for specific advice.

Eye protection: Chemical splash goggles if eye contact is reasonably probable. The selected goggles or glasses must satisfy the European standard EN 166.

Skin and body protection: General workwear.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Colourless to pale yellow liquid
Odour	Characteristic
Odour Threshold	No data available
Flammability	Not classified as flammable
Flash point	>60°C
Lower explosion limit	0.7%
Upper explosion limit	6.0%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>220°C
Oxidising properties	Non-oxidising
Solubility in water	Partially soluble
Solubility in other solvents	Soluble in organic solvents.
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Relative density	~0.8
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	<20.5 mm^2/s @ 40°C
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
2-Butoxyethanol	300-2000 mg/kg (Rat)	No data available	1000-2000 mg/kg (Rat)
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	2976 mg/kg (Rat)	No data available	>2000 mg/kg (Rat)
Hydrocarbons, C11-C14, N-Alkanes, cyclics, <2% aromatics	5 ml/kg (Rat; LDLo)	>590 mg/m^3 (Rat; vapour)	>2000 mg/kg (Rabbit)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Classified as Eye Dam.1; H318

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Repeated dose toxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Toxicity for reproduction: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT): Single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT): Repeated exposure Based on available data, the classification criteria are not met.

Aspiration Classified as Asp.Tox.4; H302

Further information No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity Classified as Aq.Chron.2; H411

Chemical name	Species	Test	Value
2-Butoxyethanol	Daphnia Fish Algae	EC50 24h LC50 96h EC50 7d	>100 mg/l >100 mg/l >100 mg/l
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol	Daphnia Fish Algae	EC50 48h EC50 96h EC50 72h	0.4 mg/l 0.3 mg/l 4.9 mg/l
Hydrocarbons, C11-C14, N-Alkanes	Daphnia Fish Algae	EC50 48h EC50 96h EC50 72h	3-10 mg/l 2-5 mg/l 1-3 mg/l

12.2 Persistence and degradability Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol is not readily biodegradable. The hydrocarbon solvents are readily biodegradable.

12.3 Bioaccumulative potential Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol has a high potential for bioaccumulation.

12.4 Mobility in soil Partially soluble in water.

12.5 Results of PBT and vPvB assessment Contains no PBT or vPvB substances.

12.6 Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s (Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol.)	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	9
	ADR/RID/ADN Class	Class 9
	ADR Label No.	9
	IMDG Class	9
	ICAO Class/Division	9
	ICAO Subsidiary risk	9
	Transport labels	 
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	III
14.5 Environment hazards	Marine Pollutant	Yes
14.6 Special precautions for user	EMS	F-A, S-F
	Tunnel restriction code	-
	Transport category	3

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. REGULATORY INFORMATION

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

UK Regulatory References
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

GB MCL (Mandatory Classification and Labelling).

Statutory Instruments
The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

S.I. 2020 No 1577: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Guidance Notes
Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with the requirements of the UK REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. (S.I. 2020 No. 1577).

Classification and procedure used to derive the classification for mixtures according to GB CLP:

Physical hazards:	Not classified.
Health hazards:	Calculation method.
Environmental hazards:	Calculation method.

Full text of H-statements referred to under sections 2 and 3

H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye Irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
STOT: Single Target Organ Toxicity (Section 2; 11).
SE: Single exposure (Section 2)
TWA: Time-weighted average. (Section 8).
STEL: Short-term exposure limit. (Section 8).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB: very Persistent and very Bioaccumulative. (Section 12).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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