

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

D374 Part A

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

1.1. Product identifier

Product name	D374 Part A
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
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1.3. Details of the supplier of the safety data sheet

Company	Delta Adhesives Ltd
Address	Units 39 - 40 Claycliffe Business Park, Barugh Green, Barnsly, S75 1JU
Web	www.delta-adhesives.co.uk
Telephone	+44 (0)1226 381571
Fax	+44 (0)1226 381722
Email	sales@delta-adhesives.co.uk
Email address of the competent person	sales@delta-adhesives.co.uk

1.4. Emergency telephone number


Emergency telephone number	+44(0)1226 381571
Company	Delta (Head Office) 24 hours (Diverted out of office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335; Repr. 1B: H360Df; Aquatic Chronic 3: H412;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Repr. 1B: H360Df - May damage the unborn child. Suspected of damaging fertility. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash 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.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . 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. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Tetrahydrofurfuryl Methacrylate		2455-24-5	219-529-5		50 - 60%	Repr. 1B: H360Df; Aquatic Chronic 3: H412;
2-Ethylhexyl methacrylate		688-84-6	211-708-6		20 - 30%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
mono-2-(Metharyloyloxy)ethyl succinate		20882-04-6	244-096-4		1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Maleic acid	607-095-00-3	110-16-7	203-742-5		1 - 10%	Acute Tox. 4: H302; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317;
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0	204-881-4	01-2119555270-46	0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention. Wash with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Rinse mouth thoroughly.

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

Inhalation	Coughing, difficulty in breathing.
Eye contact	Irritating to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

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

	Remove the affected person from the source of contamination immediately. Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Carbon dioxide (CO ₂). Foam. Non flammable product (flash point is greater than 80 Deg C). If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Trace amounts of toxic fumes may be released on incineration and the use of breathing apparatus is recommended.
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5.2. Special hazards arising from the substance or mixture

	This product is not flammable. Stable under normal conditions.
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5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with skin and eyes. Keep containers tightly closed. Wash hands after handling the product.
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6.2. Environmental precautions

	Do not allow product to enter drains. Do not empty into drains; dispose of this material and its container in a safe way.
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6.3. Methods and material for containment and cleaning up

	Wear suitable protective clothing, gloves and eye/face protection. Absorb with inert, absorbent material. Dispose of this material and its container to hazardous or special waste collection point.
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6.4. Reference to other sections

	SECTION 13: Disposal considerations. SECTION 8: Exposure controls/personal protection.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Keep only in the original container. Use in a well ventilated area. Wash hands after handling the product. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink or smoke.
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7.2. Conditions for safe storage, including any incompatibilities

	Further information on storage conditions, which must be observed to preserve quality, can be found in our product information sheet. Keep only in the original container at a temperature not exceeding 20 °C.
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7.3. Specific end use(s)

	Refer to section 1.2.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 10	
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : -	
	WEL 8-hr limit mg/m ³ total inhalable dust: -	WEL 15 min limit mg/m ³ total inhalable dust: -	
	WEL 8-hr limit mg/m ³ total respirable dust: -	WEL 15 min limit mg/m ³ total respirable dust: -	

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DNEL: Derived no-effect level.

Exposure Pattern - Workers

Butylated Hydroxytoluene	Long-term - inhalation - Local effects	5.8 mg/m ³
	Long-term - dermal - Systemic effects	8.3 mg/kg

Exposure Pattern - General population

Butylated Hydroxytoluene	Long-term - inhalation - Systemic effects	1.74 mg/m ³
	Long-term - dermal - Systemic effects	5 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	Approved safety goggles. Safety glasses.
Skin protection - Handprotection	Wear suitable gloves. Chemical resistant gloves. Polyvinyl chloride - PVC (Thickness 0.2mm,suitable for 1 -4 hrs use.Consult with glove manufacturer for break through times.).
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Use in a well ventilated area. Wear suitable respiratory equipment when necessary. For short periods of work a combination of charcoal filter and particulate filter is suitable. Suitable half mask respirator with filter P2 (EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

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9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Peroxides.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Non hazardous. Stable under normal conditions.
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10.4. Conditions to avoid

	Keep away from heat. Keep away from water.
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10.5. Incompatible materials

	Acids. Copper and its alloys. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes. Will not decompose if stored and used as recommended.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	May cause irritation to respiratory system. H361d - Suspected of damaging the unborn child. Irritating to eyes and skin. H317 - May cause an allergic skin reaction.
Skin corrosion/irritation	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. May cause irritation to skin, eyes and mucous membranes.

11.1.4. Toxicological Information

Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/kg
Maleic acid	Oral Rat LD50: 1090mg/kg	Dermal Rabbit LD50: 1560mg/kg
Tetrahydrofurfuryl Methacrylate	Oral Rat LD50: 4000mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

Butylated Hydroxytoluene	Daphnia EC50/48h: 0.6100 mg/l Fish LC50/96h: 0.5700 mg/l NOEC / EC10 for marine or freshwater organisms -0.3160 mg/l	Algae IC50/72h: 0.4000 mg/l
Maleic acid	Daphnia EC50/48h: 42.8100 mg/l Algae EC50/72h: 74.35mg/l	Fish LC50/96h: 75.0000 mg/l Rainbow trout LC50/96h: 75mg/l
Tetrahydrofurfuryl Methacrylate	Fish LC50/96h: 34.7000 mg/l	Algae EC50/72h: >100mg/l

12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

D374 Part A No data available

12.4. Mobility in soil

Immiscible in water.

12.5. Results of PBT and vPvB assessment

Not Classified as a PBT or vPvB.

12.6. Other adverse effects

None.

Further information

Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 13: Disposal considerations

Disposal methods

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Contact a licensed waste disposal company.

Disposal of packaging

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

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

	amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of substances and mixtures.
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15.2. Chemical safety assessment

	No Chemical Assessment has been conducted on this product.
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SECTION 16: Other information**Other information**

Acronyms	BCF: Bioconcentration factor. DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration. vPvB. Very persistent and very bioaccumulative.
Data sources	European Chemical Agency (ECHA).
Text of Hazard Statements in Section 3	Repr. 1B: H360Df - May damage the unborn child. Suspected of damaging fertility. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Acute Tox. 4: H302 - Harmful if swallowed. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

General information

	This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy.
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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name	D374 Part B
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC1] Adhesives, sealants;
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1.3. Details of the supplier of the safety data sheet

Company	Delta Adhesives Ltd
Address	Units 39 - 40 Claycliffe Business Park Barugh Green Barnsley S75 1JU
Web	www.delta-adhesives.co.uk
Telephone	+44 (0)1226 381571
Fax	+44 (0)1226 381722
Email	sales@delta-adhesives.co.uk
Email address of the competent person	sales@delta-adhesives.co.uk

1.4. Emergency telephone number

Emergency telephone number	+44(0)1226 381571
Company	Delta (Head Office) 24 hours (Diverted out of office hours)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

2.1.2. Classification - EC 1272/2008	Skin Corr. 1C: H314; Skin Sens. 1: H317; Acute Tox. 2: H330; STOT SE 3: H335; Repr. 1B: H360F;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1C: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 2: H330 - Fatal if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Repr. 1B: H360F - May damage fertility.



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2.2. Label elements

Precautionary Statement: Prevention	<p>P201 - Obtain special instructions before use.</p> <p>P202 - Do not handle until all safety precautions have been read and understood.</p> <p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p> <p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 - [In case of inadequate ventilation] wear respiratory protection.</p>
Precautionary Statement: Response	<p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 - IF exposed or concerned: Get medical advice/attention.</p> <p>P310 - Immediately call a POISON CENTER/doctor/ .</p> <p>P312 - Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P320 - Specific treatment is urgent (see on this label).</p> <p>P321 - Specific treatment (see on this label).</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p>
Precautionary Statement: Storage	<p>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 - Store locked up.</p>
Precautionary Statement: Disposal	<p>P501 - Dispose of contents/container to</p>

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Triethylborane-diethylenetriamine complex		1187733-83-0			20 - 30%	Acute Tox. 4: H302+H312; Skin Corr. 1C: H314; Skin Sens. 1: H317; Acute Tox. 2: H330; STOT SE 3: H335;
THFMA		2455-24-5	219-529-5		30 - 40%	Repr. 1B: H360F;
Benzyl methacrylate		2495-37-6	219-674-4		1 - 10%	Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; STOT SE 3: H335;
2,2'-Iminodiethylamine (2,2'-Iminodi(ethylamine))	612-058-00-X	111-40-0	203-865-4		1 - 10%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317;
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)		128-37-0	204-881-4	01-2119555270-46	0 - 0.5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention. Wash with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Rinse mouth thoroughly.

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

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

Inhalation	Coughing, difficulty in breathing.
Eye contact	Irritating to eyes. Causes burns.
Skin contact	Corrosive and Irritant Effects.
Ingestion	Ingestion may cause nausea and vomiting. Corrosive and Irritant Effects.

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

	Remove the affected person from the source of contamination immediately. Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Carbon dioxide (CO ₂). Foam. Non flammable product (flash point is greater than 80 Deg C). If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Trace amounts of toxic fumes may be released on incineration and the use of breathing apparatus is recommended.
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5.2. Special hazards arising from the substance or mixture

	This product is not flammable. Stable under normal conditions.
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5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with skin and eyes. Keep containers tightly closed. Wash hands after handling the product.
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6.2. Environmental precautions

	Do not allow product to enter drains. Do not empty into drains; dispose of this material and its container in a safe way.
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6.3. Methods and material for containment and cleaning up

	Wear suitable protective clothing, gloves and eye/face protection. Absorb with inert, absorbent material. Dispose of this material and its container to hazardous or special waste collection point.
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6.4. Reference to other sections

	SECTION 13: Disposal considerations. SECTION 8: Exposure controls/personal protection.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Keep only in the original container. Use in a well ventilated area. Wash hands after handling the product. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink or smoke.
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7.2. Conditions for safe storage, including any incompatibilities

	Further information on storage conditions, which must be observed to preserve quality, can be found in our product information sheet. Keep only in the original container at a temperature not exceeding 20 °C.
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7.3. Specific end use(s)

	Refer to section 1.2.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

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8.1.1. Exposure Limit Values

2,2'-Iminodiethylamine (2,2'-Iminodi(ethylamine))	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 4.3
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -
Butylated Hydroxytoluene (2,6-Di-tert-butyl-p-cresol)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

Butylated Hydroxytoluene	Long-term - inhalation - Local effects	5.8 mg/m ³
	Long-term - dermal - Systemic effects	8.3 mg/kg

Exposure Pattern - General population

Butylated Hydroxytoluene	Long-term - inhalation - Systemic effects	1.74 mg/m ³
	Long-term - dermal - Systemic effects	5 mg/kg

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	Approved safety goggles. Safety glasses.
Skin protection - Handprotection	Wear suitable gloves. Chemical resistant gloves. Polyvinyl chloride - PVC (Thickness 0.2mm,suitable for 1 -4 hrs use.Consult with glove manufacturer for break through times.).
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Use in a well ventilated area. Wear suitable respiratory equipment when necessary. For short periods of work a combination of charcoal filter and particulate filter is suitable. Suitable half mask respirator with filter P2 (EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Peroxides.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Non hazardous. Stable under normal conditions.
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10.4. Conditions to avoid

	Keep away from heat. Keep away from water.
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10.5. Incompatible materials

	Acids. Copper and its alloys. Strong oxidising agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes. Will not decompose if stored and used as recommended.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Causes severe burns.
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11.1. Information on toxicological effects

Skin corrosion/irritation	CAUSES SKIN BURNS. Prolonged or repeated exposure may cause irritation to skin and mucous membranes.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Fatal if inhaled.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	May impair fertility.
Aspiration hazard	No data is available on this product.

11.1.4. Toxicological Information

2,2'-Iminodiethylamine	Oral Rat LD50: 1553mg/kg Inhalation Rat LC50/4 h: >0.07mg/l	Dermal Rabbit LD50: 1045mg/kg
Butylated Hydroxytoluene	Oral Rat LD50: 1700mg/kg Dermal Guinea Pig LD50: >8000mg/kg	Oral Mouse LD50: 800-1600mg/kg
THFMA	Oral Rat LD50: 4000mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

2,2'-Iminodiethylamine	Daphnia EC50/48h: 64.2000 mg/l Algae EC50/72h: 1164MG/L	Fish LC50/96h: 430.0000 mg/l Bacteria EC10/18h: 0.4MG/L
Butylated Hydroxytoluene	Daphnia EC50/48h: 0.6100 mg/l Fish LC50/96h: 0.5700 mg/l NOEC / EC10 for marine or freshwater organisms: -0.3160 mg/l	Algae IC50/72h: 0.4000 mg/l
THFMA	Fish LC50/96h: 34.7000 mg/l	Algae EC50/72h: >100mg/l

12.2. Persistence and degradability

	No data is available on this product.
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12.3. Bioaccumulative potential

	Does not bioaccumulate.
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BCF: Bioconcentration factor.

2,2'-Iminodiethylamine	BCF: Bioconcentration factor. <6.3 L/kg
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Partition coefficient

	D374 Part B No data available
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12.4. Mobility in soil

	Immiscible in water.
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12.5. Results of PBT and vPvB assessment

	Not Classified as a PBT or vPvB.
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12.6. Other adverse effects

	None.
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Further information

	Avoid release to the environment. Refer to special instructions/Safety data sheets.
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SECTION 13: Disposal considerations

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Disposal methods


	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Contact a licensed waste disposal company.
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Disposal of packaging

	Dispose of in compliance with all local and national regulations.
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SECTION 14: Transport information

Hazard pictograms

	 
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14.1. UN number

	UN3289
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14.2. UN proper shipping name

	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S.
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14.3. Transport hazard class(es)

ADR/RID	6.1
Subsidiary risk	8
IMDG	6.1
Subsidiary risk	8
IATA	6.1
Subsidiary risk	8

14.4. Packing group

Packing group	II
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	68
Tunnel Category	(D/E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	660
Maximum quantity	30 L
Packing Instruction (Passenger)	653
Maximum quantity	1 L

SECTION 15: Regulatory information

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

	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of substances and mixtures.

15.2. Chemical safety assessment

No Chemical Assessment has been conducted on this product.

SECTION 16: Other information**Other information**

Acronyms	BCF: Bioconcentration factor. DMEL: Derived minimal effect level. DNEL: Derived no-effect level. PNEC: Predicted no-effect concentration. vPvB. Very persistent and very bioaccumulative.
Data sources	European Chemical Agency (ECHA).
Text of Hazard Statements in Section 3	<p>Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin</p> <p>Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Acute Tox. 2: H330 - Fatal if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Repr. 1B: H360F - May damage fertility.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Acute Tox. 4: H312 - Harmful in contact with skin.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>