



SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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

1.1 Product identifier

| | |
|------------------------|-----------------------------|
| Product Name | Fuel Bright Diesel Biocide. |
| CAS No. | None assigned. |
| EC No. | None assigned. |
| REACH Registration No. | None assigned. |

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

| | |
|----------------------|------------------------|
| Identified Use(s) | Metalworking biocides. |
| Uses Advised Against | Not known. |

1.3 Details of the supplier of the safety data sheet

| | |
|------------------------|--|
| Company Identification | THOMAS GROUP LTD. 93 Ellingham Industrial Estate Ashford, Kent TN23 6LZ England |
| Telephone | +44(0)1233 642816 |
| Fax | +44(0)1233 645024 |
| E-mail | info@fuelbright.co.uk |
| Website | www.fuelbright.co.uk |

1.4 Emergency telephone number

| | |
|---|---|
| Company | +44(0)7521 979021 |
| National Poisons Information Service (NHS Direct) | 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland) |





SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

| | |
|-------------------------------------|--|
| Regulation (EC) No. 1272/2008 (CLP) | Acute Tox. 3 :Toxic in contact with skin. Acute Tox. 4 :Harmful if inhaled. Acute Tox. 4 :Harmful if swallowed. Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects. Carc. 1B :May cause cancer. Eye Dam. 1 :Causes serious eye damage. Muta. 2 :Suspected of causing genetic defects. Skin Corr. 1B :Causes severe skin burns and eye damage. Skin Sens. 1A :May cause an allergic skin reaction. STOT RE 2 :May cause damage to organs through prolonged or repeated exposure. |
|-------------------------------------|--|

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2.2 Label elements

| | |
|----------------------------|---|
| | According to Regulation (EC) No. 1272/2008 (CLP) |
| Product Name | Fuel Bright Diesel Biocide. |
| Hazard Pictogram(s) |     |
| | GHS06 GHS05 GHS08 GHS09 |
| Signal Word(s) | Danger. |
| Hazard Statement(s) | <p>H302+H332: Harmful if swallowed or if inhaled.</p> <p>H311: Toxic in contact with skin.</p> <p>H314: Causes severe skin burns and eye damage.</p> <p>H317: May cause an allergic skin reaction.</p> <p>H341: Suspected of causing genetic defects.</p> <p>H350: May cause cancer.</p> <p>H373: May cause damage to organs through prolonged or repeated exposure.</p> <p>H411: Toxic to aquatic life with long lasting effects.</p> <p>EUH071: Corrosive to the respiratory tract.</p> |
| Precautionary Statement(s) | <p>P201: Obtain special instructions before use.</p> <p>P260: Do not breathe vapour.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</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> |

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| HAZARDOUS INGREDIENT(S) | CAS No. | EC No. / REACH Registration No. | %W/W | Hazard Statement(s) | Hazard Pictogram(s) |
|--|------------|---------------------------------|--------|---|----------------------------------|
| 3,3'-methylenebis[5-methyloxazolidine] | 66204-44-2 | 266-235-8 | 50-100 | Acute Tox. 4 H302 Acute Tox. 3 H311 Skin Corr. 1B H314 Skin Sens. 1A H317 Eye Dam. 1 H318 Acute Tox. 4 H332 Muta. 2 H341 Carc. 1B H350 STOT RE 2 H373 Aquatic Chronic 2 H411 | GHS06 GHS05 GHS08 GHS09 |



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3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|--------------|---|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. |
| Skin Contact | Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. |
| Ingestion | Do not induce vomiting. Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. |

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | Extinguish with carbon dioxide, dry chemical, foam or waterspray. |
| Unsuitable extinguishing media | None known. |

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Smoke and other products of incomplete combustion.
Formaldehyde vapour may also be released.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation to avoid build-up of vapours. Do not breathe vapour. Wear appropriate personal protective equipment, avoid direct contact. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. Transfer to a container for disposal or recovery.

6.4 Reference to other sections

See Also Section 8, 13.

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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. Use only outdoors or in a well-ventilated area. Do not breathe vapour. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| | Store locked up. |
| Storage temperature | Maximum storage temperature: 45°C Maximum handling temperature: 70°C |
| Storage life | Stable under normal conditions. |
| Incompatible materials | Strongly acidic. |

7.3 Specific end use(s)

Metalworking biocides.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection Wear eye protection with side protection (EN166).



Skin protection Wear protective clothing and gloves: Nitrile rubber, Neoprene.
Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: 240 - >480 minutes. Thickness: >0.35 mm.



Respiratory protection Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.



Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Liquid. Colour : colourless to yellow. |
| Odour | Mild. |
| Odour threshold | Not established. |
| pH | 9-10 @ 20°C |
| Melting point/freezing point | <-35°C |
| Initial boiling point and boiling range | 192.2°C |
| Flash Point | 105°C [Closed cup] |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not available. |
| Vapour pressure | 5.83 hPa @ 25°C |
| Vapour density | Not available. |
| Relative density | 1.061 @ 20°C |
| Solubility(ies) | Solubility (Water) : Soluble. Solubility (Other) : Not known. |
| Partition coefficient: n-octanol/water | -0.389 |
| Auto-ignition temperature | 237°C |
| Decomposition Temperature | Not available. |
| Viscosity | 1.914 mm ² /s @ 100°C 12.1 mm ² /s @ 40°C 40.1 mm ² /s @ 20°C |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |
| 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.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Strongly acidic.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|--------------------------------|---|
| Acute toxicity - Ingestion | Harmful if swallowed. LD50 (rat): 632 mg/kg |
| Acute toxicity - Skin Contact | Toxic in contact with skin. LD50 (rat): >760 mg/kg |
| Acute toxicity - Inhalation | Harmful if inhaled. No data. |
| Skin corrosion/irritation | Causes severe skin burns. No data. |
| Serious eye damage/irritation | Causes serious eye damage. No data. |
| Skin sensitization data | May cause an allergic skin reaction. No data. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Suspected of causing genetic defects. No data. |
| Carcinogenicity | May cause cancer. No data. |
| Reproductive toxicity | No evidence of reproductive effects. |
| Lactation | Not classified. |
| STOT - single exposure | None anticipated. |
| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure. No data. |
| Aspiration hazard | Not classified. |

11.2 Other information

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| | |
|------------------------------------|--|
| | Toxic to aquatic life with long lasting effects. |
| Toxicity - Aquatic invertebrates | No data. |
| Toxicity - Fish | No data. |
| Toxicity - Algae | No data. |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |

12.2 Persistence and Degradation

The product is biodegradable. Unlikely to persist.

12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

12.4 Mobility in soil

Soluble in water. The product is predicted to have high mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

Not known.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material and its container as hazardous waste. Dispose of wastes in an approved waste disposal facility.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 2922

14.2 UN proper shipping name

UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (3,3'-methylenebis[5-methyloxazolidine])

14.3 Transport hazard class(es)

ADR/RID

| | |
|---|------------|
| ADR/RID Class | 8 |
| ADR Classification Code | CT1 |
| Special Provisions | 274 |
| Limited Quantities | 1 L |
| Excepted Quantities | E2 |
| Emergency Action Code | 2X |
| Mixed Packing Instructions for Packages | P001 IBC02 |
| Mixed Packing Instructions for Packages | MP15 |
| Packing Instructions for Portable Tanks | T7 |
| Special Provisions for Portable Tanks | TP2 |
| Tank Code for Tanks | L4BN |
| Vehicle for Tank Carriage | AT |
| ADR Transport Category | 2 |
| Tunnel Restriction Code | E |
| Special Provisions for Carriage - Loading, Unloading and Handling | CV13 CV28 |
| ADR HIN | 86 |

IMDG

| | |
|---|----------------|
| IMDG Class | 8 |
| Special Provisions | 274 |
| Limited Quantities | 1 L |
| Excepted Quantities | E2 |
| Mixed Packing Instructions for Packages | P001 IBC02 |
| Packing Instructions for Portable Tanks | T7 |
| Special Provisions for Portable Tanks | TP2 |
| IMDG EMS | F-A, S-B |
| Stowage and Handling | Category B SW2 |

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ICAO/IATA

| | |
|--|--|
| IATA Proper Shipping Name | CORROSIVE LIQUID, TOXIC, N.O.S. (3,3'-methylenebis[5-methyloxazolidine]) |
| Excepted Quantities | E2 |
| Passenger and Cargo Aircraft Limited | Y840 |
| Quantities Packing Instructions | |
| Passenger and Cargo Aircraft Limited | 0.5L |
| Quantities Max net Qty | |
| Passenger and Cargo Aircraft Packing | 851 |
| Instructions | |
| Passenger and Cargo Aircraft Max net Qty | 1L |
| Cargo Aircraft Packing Instructions | 855 |
| Cargo Aircraft Max net Qty | 30L |
| Special Provisions | A3, A803 |
| Emergency Response Guidebook (ERG) | 8P |
| Code | |
| Labels | 8 +6.1 |



14.4 Packing group

Packing group II

14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Transport in bulk according to Annex II of Marpol and the IBC Code No information available

SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed.

REACH: ANNEX XIV list of substances subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed.

Community Rolling Action Plan (CoRAP) Not listed.

Other Not known.

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15.2 Chemical Safety Assessment

Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s)



GHS06



GHS05



GHS08



GHS09

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4
 Acute Tox. 3 : Acute toxicity, Category 3
 Skin Corr. 1B : Skin corrosion/irritation, Category 1B
 Skin Sens. 1A : Skin sensitization, Category 1A
 Eye Dam. 1 : Serious eye damage/irritation, Category 1
 Acute Tox. 4 : Acute toxicity, Category 4
 Muta. 2 : Germ cell mutagenicity, Category 2
 Carc. 1B : Carcinogenicity, Category 1B
 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H302: Harmful if swallowed.
 H311: Toxic in contact with skin.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H332: Harmful if inhaled.
 H341: Suspected of causing genetic defects.
 H350: May cause cancer.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H411: Toxic to aquatic life with long lasting effects.
 EUH071: Corrosive to the respiratory tract.

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 vapour.
 P261: Avoid breathing vapours.
 P264: Wash hands and exposed skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 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.



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P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P310: Immediately call a POISON CENTER/doctor.
P312: Call a POISON CENTER/doctor if you feel unwell.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see on this label).
P330: Rinse mouth.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P361+P364: Take off immediately all contaminated clothing. And wash it before reuse.
P362+P364: Take off contaminated clothing and wash it before reuse.
P363: Wash contaminated clothing before reuse.
P391: Collect spillage.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
PBT : Persistent, Bioaccumulative and Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : very Persistent and very Bioaccumulative



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