



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Opus AllPlant Ignite

Revision 2
Revision date 2020-01-07

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

1.1. Product identifier

Product name	Opus AllPlant Ignite
Product code	QAFS830

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen);
Description	An Agri-Gas Oil fuel treatment designed for application to all agricultural, forestry, plant and construction machinery. Treatment rate: 1 litre AMAC MP POWER PLUS to 1,500 litres Diesel fuel.

1.3. Details of the supplier of the safety data sheet

Company	Ferguson and Menzies Ltd
Address	312 Broomloan Road Glasgow G51 2JW
Web	www.fergusonmenzies.co.uk
Telephone	0141 445 3555
Fax	0141 425 1079
Email	info@fergusonmenzies.co.uk
Email address of the competent person	info@fergusonmenzies.co.uk

1.4. Emergency telephone number


Emergency telephone number	0141 445 3555 9.00am - 17.00pm
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Flam. Liq. 3: H226; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Flam. Liq. 3: H226 - Flammable liquid and vapour. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P352 - IF ON SKIN: Wash with plenty of water/ . 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.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.
SUPPLEMENTAL HAZARD INFORMATION	DO NOT HEAT. Risk of explosion if heated under confinement.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.
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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
2-ETHYLHEXYL NITRATE		27247-96-7	248-363-6	01-2119539586-27	40 - 50%	Acute Tox. 4: H302+H312+H332; Aquatic Chronic 2: H411;
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	40 - 50%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;
xylene (Xylene, o-,m-,p-or mixed isomers)	601-022-00-9	1330-20-7	215-535-7		1 - 10%	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315;
cyclohexyldimethylamine		98-94-2	202-715-5	01-2119530303-60	1 - 10%	Flam. Liq. 3: H226; Acute Tox. 3: H301+H311+H331; Skin Corr. 1B: H314; Eye Dam. 1: H318;
ethylbenzene	601-023-00-4	100-41-4	202-849-4	01-2119892111-44	0.5 - 1%	Flam. Liq. 2: H225; Acute Tox. 4: H332;
α, α - propylenedinitilodi-o-cresol		94-91-7	202-374-2	01-2119958970-25	0 - 0.5%	Acute Tox. 4: H302; Skin Sens. 1: H317; Repr. 1B: H360FD; Aquatic Chronic 3: H412;

Further information

Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash with water and soap as a precaution.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

Inhalation	High concentration of vapour in enclosed space may cause irritation, headaches and nausea. May cause irritation to respiratory system.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation. May cause skin dryness and cracking.

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

Ingestion	May cause irritation to mucous membranes.
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4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	TREAT SYMPTOMATICALLY. Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.

General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Flammable liquid. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Wear suitable protective equipment. Flammable liquid. Avoid sparks, flames, heat and sources of ignition.
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6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Avoid sparks, flames, heat and sources of ignition.
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6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Adopt best Manual Handling considerations when handling, carrying and dispensing. DO NOT HEAT: Chemical component undergoes self-sustaining exothermic reaction above 100 degC.
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7.2. Conditions for safe storage, including any incompatibilities

	Flammable liquid. Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light. Store in a well-ventilated place. Keep cool. Store in original container. Keep container tightly closed. Keep away from combustible material. Keep out of the reach of children.
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7.3. Specific end use(s)

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7.3. Specific end use(s)

	An Agri-Gas Oil fuel treatment designed for application to all agricultural, forestry, plant and construction machinery. Treatment rate: 1 litre AMAC MP POWER PLUS to 1,500 litres Diesel fuel.
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Suitable packaging

	Plastic containers.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.
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8.1.1. Exposure Limit Values

2-butoxyethanol	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 123 WEL 15 min limit mg/m3: 101.2 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
2-ETHYLHEXYL NITRATE	WEL 8-hr limit ppm: - WEL 15 min limit ppm: 1 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
ethylbenzene	WEL 8-hr limit ppm: 100 WEL 15 min limit ppm: 125 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 441 WEL 15 min limit mg/m3: 552 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
xylene (Xylene, o-,m-,p-or mixed isomers)	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 220 WEL 15 min limit mg/m3: 441 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

2-butoxyethanol	Acute inhalation - Systemic effects 1091 mg/m ³ Acute inhalation - Local effects 246 mg/m ³ Long-term - inhalation - Systemic effects 98 mg/m ³	Acute dermal - Systemic effects 89 mg/kg Long-term - dermal - Systemic effects 125 mg/kg
2-ETHYLHEXYL NITRATE	Long-term - inhalation - Systemic effects 0.35 mg/m ³ Long-term - dermal - Systemic effects 1 mg/kg	Long-term - dermal - Local effects 0.044 mg/cm ³
ethylbenzene	Acute inhalation - Local effects 293 mg/m ³ Long-term - inhalation - Systemic effects 77 mg/m ³	Long-term - dermal - Systemic effects 180 mg/kg

Exposure Pattern - General population

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Exposure Pattern - General population

2-butoxyethanol	<p>Acute inhalation - Systemic effects 426 mg/m³</p> <p>Acute dermal - Systemic effects 89 mg/kg</p> <p>Long-term - inhalation - Systemic effects 59 mg/m³</p> <p>Long-term - dermal - Systemic effects 75 mg/kg</p>	<p>Acute oral - Systemic effects 26.7 mg/kg</p> <p>Long-term - inhalation - Local effects 147 mg/m³</p> <p>Long-term - oral - Systemic effects 6.3 mg/kg</p>
2-ETHYLHEXYL NITRATE	<p>Long-term - inhalation - Systemic effects 0.087 mg/m³</p> <p>Long-term - dermal - Systemic effects 0.52 mg/kg</p> <p>Long-term - oral - Systemic effects 0.025 mg/kg</p>	<p>Long-term - dermal - Local effects 0.022 mg/cm³</p>

8.2. Exposure controls

	
	<p>Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.</p>
8.2.1. Appropriate engineering controls	<p>Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.</p>
Eye / face protection	<p>Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.</p>
Skin protection - Handprotection	<p>Rubber gloves.</p>
Respiratory protection	<p>No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.</p>
8.2.3. Environmental exposure controls	<p>Prevent further leakage or spillage if safe to do so.</p>

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	Not applicable.
Melting point	No data available
Initial boiling point	No data available
Flash point	50 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.87 - 0.93 (H ₂ O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 100 centipoise
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	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	Flammable liquid. Stable under normal conditions.
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10.2. Chemical stability

	Flammable liquid. Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Oxidising agents. Combustible materials.
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10.4. Conditions to avoid

	Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light.
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10.5. Incompatible materials

	Oxidising agents.
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10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).
Acute toxicity	Acute Tox. 4: H312 - Harmful in contact with skin.

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11.1. Information on toxicological effects

Skin corrosion/irritation	Skin Irrit. 2: H315 - Causes skin irritation.
Serious eye damage/irritation	Eye Irrit. 2: H319 - Causes serious eye irritation.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.

11.1.2. Mixtures

	No data available.
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11.1.3. Hazard Information

	No data available.
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11.1.4. Toxicological Information

2-butoxyethanol	Inhalation Rat LC50/15min: 4500 ppm Dermal Rat LD50: 1100 mg/kg Inhalation Rat LC50/4 h: 1.5 mg/l	Inhalation Rat LC50/30min: 11.0 mg/l Oral Rat LD50: 1300 mg/kg
2-ETHYLHEXYL NITRATE	Inhalation Rat LC50/1 h: >4.6 mg/l Dermal Rabbit LD50: >4820 mg/kg	Oral Rat LD50: >9640 mg/kg
ethylbenzene	Oral Rat LD50: 4560 mg/kg Dermal Rabbit LD50: >5000 mg/kg	Inhalation Mouse LC50/2 h: 35500 mg/m3 Inhalation Rat LC50/4 h: 4000 ppm
xylene	Dermal Rat LD50: 4320 mg/kg	Oral Rat LD50: 4300 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

2-butoxyethanol	EC50 for marine or freshwater organisms >100.0000 mg/l	LC50 for marine or freshwater organisms >100.0000 mg/l
2-ETHYLHEXYL NITRATE	Daphnia EC50/48h: 12.6000 mg/l Algae EC50/72h: 1 - 10 mg/l	Fish LC50/96h: 2.0000 mg/l Rainbow trout LC50/96h: 145 mg/l
ethylbenzene	Daphnia EC50/48h: 2.9300 mg/l Green algae EC50/96h: 3600 ug/l Green Algae EC50/48h: 7.2 mg/l	Fish LC50/96h: 4.2000 mg/l Algae EC50/72h: 4600 ug/l
xylene	Fish LC50/96h: 3.3000 mg/l	

12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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12.3. Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	Opus AllPlant Ignite No data available	2-butoxyethanol 0.8 log P
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

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12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

General information

Dispose of in compliance with all local and national requirements.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Contains Xylene and Cyclohexyldimethylamine)

14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

14.6. Special precautions for user

No additional special precautions.

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

Not applicable.

ADR/RID

Hazard ID	30
Tunnel Category	(D/E)

IMDG

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IMDG	
EmS Code	F-E S-E
IATA	
Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L
Further information	
	Do not heat above 100 degC for transport.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulations	
	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) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

15.2. Chemical safety assessment

	No information available.
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SECTION 16: Other information

Other information	
Revision	This document differs from the previous version in the following areas: 1 - Description. 2 - Hazard pictograms. 2 - SUPPLEMENTAL HAZARD INFORMATION. 7 - 7.1. Precautions for safe handling. 7 - 7.2. Conditions for safe storage, including any incompatibilities. 7 - 7.3. Specific end use(s). 14 - Further information.
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008: Flam. Liq. 3: H226 - Flammable liquid and vapour. - Flash Point - 50 degC. Acute Tox. 4: H312 - Harmful in contact with skin. - Calculation Method. Skin Irrit. 2: H315 - Causes skin irritation. - Calculation Method. Eye Irrit. 2: H319 - Causes serious eye irritation. - Calculation Method. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. - Calculation Method.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled.

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Other information

Flam. Liq. 3: H226 - Flammable liquid and vapour.
Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Eye Dam. 1: H318 - Causes serious eye damage.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Repr. 1B: H360FD - May damage fertility. May damage the unborn child.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. 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. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.