

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****1.2. Relevant identified uses of the substance or mixture and uses advised against****Product name:** GRINDSOL 495 PLUS**Use of substance / mixture:** PC25: Metal working fluids.**1.3. Details of the supplier of the safety data sheet****Company name:** Premier Lubricants

Little Row

Fenton Ind Est

Stoke-on-Trent

ST4 2SQ

United Kingdom

Tel: +44 1782 410381**Fax:** +44 1782 410684**Email:** info@premierlubricants.co.uk**1.4. Emergency telephone number****Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** This product has no classification under CLP.**2.2. Label elements****2.3. Other hazards****Label elements:** This product has no label elements.**PBT:** This product is not identified as a PBT/vPvB substance.**Section 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients:**

2,2'-OXYBISETHANOL - REACH registered number(s): 01-2119457857-21

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-872-2	111-46-6	-	Acute Tox. 4: H302	30-50%

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POTASSIUM HYDROXIDE

215-181-3	1310-58-3	-	Acute Tox. 4: H302; Skin Corr. 1A: H314	1-10%
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BENZOTRIAZOLE

202-394-1	95-14-7	-	Acute Tox. 4: H302	1-10%
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DISODIUM TETRABORATE DECAHYDRATE

215-540-4	1303-96-4	-	Repr. 1B: H360FD	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. If irritation persists, obtain medical advice.

Eye contact: Bathe the eye with running water for 15 minutes. For contact with undiluted fluid, obtain prompt medical attention. For contact with diluted fluid, obtain medical attention if irritation persists.

Ingestion: Do not induce vomiting. Wash out mouth with water and obtain medical attention. Treat symptomatically. If aspiration is suspected, obtain immediate medical attention.

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

Skin contact: Occasional contact with undiluted product is unlikely to cause any significant reaction. Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

Eye contact: Eye contact with undiluted product may cause moderate irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness.

Ingestion: The product has a low order of acute oral toxicity; ingestion is not regarded as a significant hazard likely to arise in normal use.

Inhalation: The product is unlikely to present any significant hazard at ambient temperatures. High temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposure to oil mists may cause respiratory damage and a condition resembling pneumonia.

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

Immediate / special treatment: For pressure injection always obtain immediate medical attention.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities

Handling requirements: Avoid direct contact with the substance.

Storage conditions: Store in dry conditions between 0 and 40°C.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Specific end use(s): PC25: Metal working fluids.

Hazardous ingredients:

2,2'-OXYBISETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
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UK	101 mg/m3	-	-	-
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POTASSIUM HYDROXIDE

UK	-	2 mg/m3	-	-
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DNEL/PNEC Values

Hazardous ingredients:

2,2'-OXYBISETHANOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	53mg/kg/day	Consumers	Systemic
DNEL	Inhalation	12mg/m3	Consumers	Local
DNEL	Dermal	106mg/kg/day	Workers	Systemic
DNEL	Inhalation	60mg/m3	Workers	Local
PNEC	Fresh water	10mg/l	-	-
PNEC	Marine water	1mg/l	-	-
PNEC	Fresh water sediments	20.9mg/kg	-	-
PNEC	Soil	1.53mg/kg	-	-
PNEC	STP	199.5mg/l	-	-
PNEC	Intermittent release	10mg/l	-	-

8.2. Exposure controls

Respiratory protection: Respiratory protection is not normally required.

Hand protection: Wear oil impervious gloves when handling product. Prolonged or repeated contact with diluted metalworking fluid is often unavoidable, in such circumstances; the use of barrier and after work creams may be beneficial. Change heavily contaminated clothing as soon as possible.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-green

Odour: Barely perceptible odour

Solubility in water: Miscible

Kinematic viscosity: 20-40

Viscosity test method: Kinematic viscosity in 10⁻⁶ m²/s at 40°C (ISO 3219)

Boiling point/range°C: >100

Melting point/range°C: <0

Flash point°C: >100

Autoflammability°C: No data available.

Relative density: 1.14

pH: 9.0-9.3

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Extremes of temperature. Store between 0 and 40°C.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: Thermal decomposition can produce various compounds, depending on the conditions in which decomposition took place. Depending on the temperature and the level of oxygen available products of decomposition may be carbon, oxides of sulphur, carbon and nitrogen, partially oxidised organic compounds, water and other unidentifiable organic and inorganic compounds.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2,2'-OXYBISETHANOL

DERMAL	RBT	LD50	13300	mg/kg
DUST/MIST	RAT	LC50	4.6	mg/l
ORAL	MUS	Fertility	3060	mg/kg
ORAL	RAT	LD50	19600	mg/kg

POTASSIUM HYDROXIDE

ORL	RAT	LD50	273	mg/kg
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BENZOTRIAZOLE

DERMAL	RAT	LD50	>1000	mg/kg
ORAL	RAT	LD50	560	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: Occasional contact with undiluted product is unlikely to cause any significant reaction.

Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

Eye contact: Eye contact with undiluted product may cause moderate irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness.

Ingestion: The product has a low order of acute oral toxicity; ingestion is not regarded as a significant hazard likely to arise in normal use.

Inhalation: The product is unlikely to present any significant hazard at ambient temperatures. High temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposure to oil mists may cause respiratory damage and a condition resembling pneumonia.

Other information: Aspiration into the lungs caused by vomiting following ingestion can be hazardous with possible resultant chemically induced pneumonia

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

2,2'-OXYBISETHANOL

ALGAE	72H IC50	2700	mg/l
DAPHNIA	48H EC50	>10000	mg/l
FISH	96H LC50	75200	mg/l
Mircoorganisms (Activated sludge)	EC20 30mins	>1995	mg/l

BENZOTRIAZOLE

AQUATIC INVERTEBRATES	48H EC50	91	mg/l
AQUATIC PLANTS	72H IC50	231	mg/l
FISH	96H LC50	25	mg/l

12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Small quantities will be absorbed in the upper soil layers where biodegradation may take place.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Components are not expected to be highly toxic to aquatic life. If released to water product may deplete the oxygen supply to bottom dwelling organisms. Nitrosamines may be formed with the nitrogen content in the water or in the presence of nitrites.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H360FD: May damage fertility. May damage the unborn child.

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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