

Safety data sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 20.02.2025

Version number 1

Revision: 20.02.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Microgrind X-LF**Product Code:** HS0146**Registration number** Mixture**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product category** PC25 Metal working fluids**Application of the substance / the mixture** Metal working fluid**Uses advised against**

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of aerosol, vapour or dust in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).

Processes involving extreme heat use advised against.

1.3 Details of the supplier of the safety data sheet**Supplier:**

Pennine Lubricants Ltd

32 Atlas Way

Sheffield

S4 7QQ

Tel: 0114 285 2987

Email: Admin@penninelubricants.co.uk

Further information obtainable from: Product safety department.**1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to GB-CLP**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to GB-CLP** The product is classified and labelled according to the GB CLP regulation.**Hazard pictograms**

GHS07

Signal word Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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- P280 Wear protective gloves / eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture of substances listed below with multi-functional non-hazardous ingredients

Dangerous components:		
Neutralisation product	Ethoxylated amine, neutralised ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312 ATE: LD50 dermal: 1,100 mg/kg	2.5 – 10%
Neutralisation product	Primary alkanolamine, ionic equilibrium with acids ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 ATE: LD50 oral: 500 mg/kg LD50 dermal: 1,100 mg/kg LC50/4 h inhalative: 1.5 mg/l	2.5 – < 10%
CAS: 105-59-9 EINECS: 203-312-7 Index number: 603-079-00-5 Reg.nr.: 01-2119488970-24-XXXX	2,2'-(methylimino)diethanol ⚠ Eye Irrit. 2, H319	1 – 2.5%
CAS: 3855-32-1 EINECS: 223-362-3 Reg.nr.: 01-2119983518-22-XXXX	N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropan e-1,3-diamine ⚠ Acute Tox. 3, H311; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	1 – < 2.5%
Neutralisation product	Benzotriazole, neutralised ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	0.25 – < 1%
CAS: 3811-73-2 EINECS: 223-296-5 Index number: 613-344-00-7 Reg.nr.: 01-2119493385-28-XXXX	Sodium pyridine thione ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT RE 1, H372; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH070 ATE: LD50 oral: 500 mg/kg LD50 dermal: 790 mg/kg LC50/4 h inhalative: 0.5 mg/l	0.025 – < 0.1%

Additional information:

Neutralisation products are exempt from registration in accordance with UK REACH Annex V, 4.
For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures****General information:** Immediately remove any clothing soiled by the product.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Wash mouth out with water

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Information for doctor: Treat symptomatically and supportively.**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Phosphorous oxides

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

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6.4 Reference to other sections

See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Storage class: 12

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
CAS: 105-59-9 2,2'-(methylimino)diethanol		
Oral	Long-term systemic effects	130 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	5.6 mg/kg bw/day (worker)
	Long-term systemic effects	670 µg/kg bw/day (general population)
	Long-term local effects	30 µg/kg bw/day (general population)
		50 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	7.9 mg/m (worker)
	Long-term systemic effects	400 µg/m (general population)
CAS: 3855-32-1 N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine		
Oral	Long-term systemic effects	50 µg/kg bw/day (general population)
Dermal	Long-term local effects	10 mg/kg bw/day (general population)
		16.6 mg/kg bw/day (worker)
	Long-term systemic effects	50 µg/kg bw/day (general population)
Inhalative		140 µg/kg bw/day (worker)
	Short-term systemic effects	1.08 mg/m (general population)
		3.5 mg/m (worker)
	Long-term local effects	4.35 mg/m (general population)
		14.7 mg/m (worker)

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	Short-term local effects	13.05 mg/m (general population)
		44.25 mg/m (worker)
	Long-term systemic effects	87µg/m (general population)
		493 µg/m (worker)
PNECs		
CAS: 105-59-9 2,2'-(methylinino)diethanol		
Freshwater		278µg/L
Freshwater - Intermittent releases		1 mg/L
Marine water		27.8 µg/L
Sewage Treatment Plant		10 mg/L
Sediment (freshwater)		2.17 mg/kg
Sediment (marine water)		217 µg/kg
Soil		270 µg/kg
CAS: 3855-32-1 N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine		
Freshwater		22µg/L
Freshwater - Intermittent releases		220µg/L
Marine water		2.2µg/L
Sewage Treatment Plant		10 mg/L
Sediment (freshwater)		140 µg/kg
Sediment (marine water)		14 µg/kg
Soil µg/kg		9.1

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection


Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection:


Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

Environmental exposure controls Do not allow to enter drains, sewers or watercourses.

Risk management measures The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Pale straw
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	> 100 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	10.5 (5%)
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.05 g/cm
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:
Form: Liquid

Important information on protection of health and environment, and on safety.
Ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

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Solvent content:	
VOC (EC)	0.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases	
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Heat and static discharge.

10.5 Incompatible materials:

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Phosphorus oxides (e.g. P₂O₅)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	5,734.4 mg/kg
Dermal	LD50	8,058.7 mg/kg
Inhalative	LC50/4 h	40 mg/l

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Ethoxylated amine, neutralised		
Oral	LD50	1,000 mg/kg (rat)
CAS: 105-59-9 2,2'-(methylinino)diethanol		
Oral	LD50	4,780 mg/kg (rat)
CAS: 3855-32-1 N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine		
Oral	LD50	1,598 mg/kg (rat)
Dermal	LD50	569 mg/kg (rat)
CAS: 3811-73-2 Sodium pyridine thione		
Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	790 mg/kg (ATE)

Primary irritant effect:
Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation 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.

Subacute to chronic toxicity: Prolonged or repeated skin contact may irritate and cause dermatitis.

Additional toxicological information:

Current and relevant legislation requires exposure to metalworking fluids by inhalation, ingestion or skin contact to be prevented where reasonably practicable, or failing that, adequately controlled.

Exposure to metalworking fluids can cause irritation of the skin, dermatitis and breathing problems following repeated exposure. Additionally, if not controlled properly, fluid systems that contain water-mixes can become highly contaminated with microorganisms. These organisms, their metabolites and their remains can affect human health if they should enter the breathing zones of workers and other persons leading to chronic respiratory diseases. Such contamination of fluids and associated machinery and pipework must be appropriately monitored and controlled. Direct means of measuring such contamination must be used in conjunction with other relevant checks on fluid quality. Also, systems containing water-mixes must be appropriately cleaned on a regular basis.

11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability The organic portion of the product is biodegradable.

12.3 Bioaccumulative potential Product is not expected to bioaccumulate.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Remark: Harmful to fish

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Additional ecological information:**General notes:**

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents.**SECTION 14: Transport information**

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name ADR/RID/ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es) ADR/RID/ADN, ADN, IMDG, IATA Class	Not applicable
14.4 Packing group ADR/RID/ADN, IMDG, IATA	Not applicable
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Not applicable

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SECTION 15: Regulatory information

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

Poisons Act

Regulated explosives precursors

None of the ingredients are listed.

Regulated poisons

None of the ingredients are listed.

Reportable explosives precursors

None of the ingredients are listed.

Reportable poisons

None of the ingredients are listed.

Control Of Major Accident Hazards Regulations 2015 (COMAH)

Named dangerous substances - ANNEX I None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects
- H412 Harmful to aquatic life with long lasting effects.
- EUH070 Toxic by eye contact.

Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

Department issuing SDS: Product safety department.

Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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