

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

TELEPHONE: PRODUCT INFORMATION: 024 7642 1222

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CHEMICAL NAME:

PRODUCT: METPREP COOL CUTTING AGENT

PRODUCT NUMBERS: 10 90 01, 10 90 05

2. COMPOSITION / INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Hazardous Components	CAS No:	Class	Weight %
Mineral Oil, <PCA 3% IP346	64742-52-5	no label	30 - 40
Alkanolamine borate	26038-87-9	Xi R36/38	5-15%
N-Formale	34375-28-5	Xn R22; Xi 36/38	1-5%
Alcholethoxylates	157707-43-2	Xi R36/38; N R50	1-5%

Chemical characterization:

Mineral oil, anionic and nonionic emulsifiers, organic and inorganic corrosion inhibitors, biocides, and water.

Product does not contain:

Nitrite, Heavy metals, PCB's, phenols, chlorine, diethanolamine, nonylphenoethoxylates, phosphates.

3. HAZARDS IDENTIFICATION

This product is not a hazardous product and need not be labeled according to EC-Directives 67/548, 1999/45/EG, as amended.

Important health hazards: No significant health hazards are associated with this product when used as recommended.
Do not allow material to contaminate ground water system.

Other hazards: Spilled product may result in slippery floors.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Move to fresh air. Not expected to be a probable route of exposure to product concentrate.

EYES: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

SKIN: In case of skin contact with concentrated product, wash skin thoroughly with soap and water or use recognized skin cleanser. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practiced. Remove severely contaminated clothing, including shoes. Launder before re-use. Should irritation occur, seek medical attention.

INGESTION: If concentrate or mix is swallowed, do not induce vomiting. Dilute by drinking water or milk. Immediately seek medical attention. Swallowing small quantities of diluted product is not expected to cause injury or illness but, as should be expected when drinking oily, soapy water nausea, diarrhoea or abdominal distress may be expected.

5. FIRE FIGHTING MEASURES

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EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical

EXTINGUISHING MEDIA NOT TO BE USED: None

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus for fire fighting if necessary.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxides of carbon and nitrogen may be formed.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up with inert absorbent material. After cleaning, flush away traces with water. Dispose of rinse water in accordance with local and national regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Handle in accordance with good industrial hygiene practice using standard skin and eye protection. Avoid contact with skin, eyes and clothing

STORAGE TEMPERATURE: Keep at temperatures between 5 °C and 35 °C in original container.

OTHER PRECAUTIONS: Wash thoroughly after use and before eating or smoking.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): No special precautions required.

VENTILATION:

PROTECTIVE GLOVES: Impervious gloves are required when handling product concentrate. Type of glove (DIN/EN374) Nitrile, 0.11mm; minimum breakthrough time: 480 mins

The same gloves can be used for the diluted product, if considered necessary. Consider the particular working conditions under which the gloves are being used.

EYE PROTECTION: Safety shield or goggles required when handling concentrated product.

HYGIENE MEASURES: General industrial hygiene practice, preventive skin protection.

ENGINEERING MEASURES: For most applications, normal shop ventilation is adequate. However, when high mist levels are generated or where machines are close together, or where ventilation is inadequate, use of splash guards or mist collectors is recommended.

OCCUPATIONAL EXPOSURE LIMITS:

Metalworking Fluid	D: 10 mg/m ³ UK guidance value 1 mg/m ³
Mineral Oil, PCA<3% IP346	10 mg/m ³ (CZ), 5 mg/m ³ (USA:OSHA PEL), 1 mg/m ³ (DK) 5 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

COLOUR: Yellow

ODOUR: Mild

BOILING POINT: > 100 °C

SPECIFIC GRAVITY (H₂O=1): NA

MELTING POINT: < 0 °C

VISCOSITY: 350 mm²/s

PERCENT VOLATILE W/W%: NA

DENSITY: 1000 kg/m³

EVAPORATION RATE: NA

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FLASH POINT: Does not flash

AUTOIGNITION TEMPERATURE: NA

FLAMMABLE LIMIT, AIR VOL % LOWER: NA

UPPER: NA

SOLUBILITY IN WATER: Emulsifiable

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions

CONDITIONS TO AVOID: Not applicable

INCOMPATIBILITY (MATERIALS TO AVOID): Incompatible with strong acids and oxidising agents. Formaldehyde may be released below pH 7.

HAZARDOUS DECOMPOSITION PRODUCTS: In the event of fire carbon dioxides, nitrogen oxides may be formed.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

	Product concentrate	product at use dilution
Inhalation:	not applicable	
Eye contact:	not a primary irritant	
Skin contact:	not a primary irritant	see below
Ingestion:	not orally toxic	

Mild skin irritation (redness and dryness of hands) may be experienced when the diluted product has been contaminated by certain oils, by dissolved metals or when mix ratio is too strong. When problems occur, use of water-resistant barrier creams may be temporary control measure. If irritation persists, get medical assistance.

12. ECOLOGICAL INFORMATION

Do not allow material to contaminate ground water system. Prevent product from entering drains.

Chemical oxygen demands (COD)

AQUATIC TOXICITY:

ECOLOGICAL TOXICITY:

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Disposal procedures must comply with local regulations. If pretreatment is needed, chemical emulsion breaking or ultra filtration may be used.

Waste disposal number 120109.

14. TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of the transport regulations.

NON-HAZARDOUS
SHIPPING NAME

15. REGULATORY INFORMATION

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This product does not need to be labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION

Publication EH62 "Metalworking fluids – health precautions" from the Health & Safety Executive

Description of the R-sentences mentioned in section 2

R22 – Harmful if swallowed

R36/38 – Irritating to eyes and skin

R50 – Very toxic to aquatic organisms

The data sheet was prepared in accordance with Directive 91/155/EEC

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