



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 10 90 01, 10 90 05

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

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

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PRODUCT: COOL

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Substance / Mixture : Mixture.

Classification : This product is not hazardous (Directive 1999/45/EC).

2.2. Label elements

Symbol(s) : None.

R Phrase(s) : None.

S Phrase(s) : None.

2.3. Other hazards

Spilled product may result in slippery floors.

Do not allow material to contaminate ground water system.

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

Substance / Mixture : Mixture.

Components : This product is not hazardous but contains hazardous components.

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

Substances to be mentioned	Weight %	CAS No	EC No	REACH reg.no.	Classification
Mineral oil, note H, L : <3% DMSO : extract (IP346)	10 - 20	64742-52-5	265-155-0 ----	01-2119467170-45	Not classified. (DSD/DPD) ----- Not classified. (CLP)
Mineral oil, note H, L : <3% DMSO : extract (IP346)	10 - 20	64742-65-0	265-169-7 ----	01-2119471299-27	Not classified. (DSD/DPD) ----- Asp. Tox. 1;H304
3,3'-Methylene-bis-[5- methyloxazolidine]	1 - 4	66204-44-2	266-235-8 ----	B	Xn; R21/22 C; R34 R52 ----- Skin Corr. 1B;H314 Acute Tox. 4 (Inhalation);H332 Acute Tox. 4 (Oral);H302
Alcohols, C13-15, branched and linear, : ethoxylated	< 2	157627-86-6	500-337-8 ----	----	Xi; R41 N; R50 ----- Eye Dam. 1;H318 Aquatic Acute 1;H400
2-Pyridinethiol, 1-oxide, sodium salt :	< 0.25	3811-73-2	223-296-5 ----	B	Xn; R20/21/22 Xi; R36/38 N; R50 ----- Acute Tox. 4 (Dermal);H312 Acute Tox. 4 (Inhalation);H332 Acute Tox. 4 (Oral);H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315 Aquatic Acute 1;H400

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SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

General information	: Seek medical attention if ill effect develops.
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Skin contact	: Remove contaminated clothing and shoes. Wash skin with mild soap and water.
Eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Ingestion	: Do not induce vomiting. Drink promptly large quantities of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water.

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

Inhalation	: None under normal conditions.
Skin contact	: Repeated or prolonged skin contact may cause irritation. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practised.
Eye contact	: May cause stinging sensation in eye.
Ingestion	: Ingestion may cause nausea, vomiting and diarrhea.

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

Emergency medical treatment	: No hazards which require special first aid measures.
Note to physician	: Treat symptomatically

SECTION 5 FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	: Any fire extinguishing media may be used on nearby fires (water, powder, foam).
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Flammable class	: The product is not flammable.
Hazardous combustion products	: If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition : carbon oxides , smoke , sulphur oxides , nitrogen oxides (NOx) .

5.3. Advice for firefighters

Special protective equipment for fire fighters : Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General precautions	: Spill area may be slippery.
Personal precautions	: Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. After cleaning, flush away traces with water.

Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information

SECTION 7 HANDLING AND STORAGE



7.1. Precautions for safe handling

- Handling** : Avoid contact with skin and eyes.
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Wash clothing before re-using.
- General** : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep at temperatures between 5°C and 35°C in original container.
- Technical protective measures** : Use only in well-ventilated areas.

7.3. Specific end use(s)

Use only as recommended on the product application sheet.

More information can be found on:

www.hse.gov.uk/metalworking,

www.ukla.org.uk,

www.vsi-schmierstoffe.de.

SECTION 8

EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

- Occupational Exposure Limits** : 2-Pyridinethiol, 1-oxide, sodium salt : Time weighted Average (8hrs, mg/m³) : 1 (DE(TRGS900) / CH)
2-Pyridinethiol, 1-oxide, sodium salt : Short Term Exposure Limit (15min, mg/m³) : 2 (CH)
Mineral oil : oilmist, Time weighted Average, 8 hours ACGIH : 5 (mg/m³)
Metalworking fluid : United Kingdom (UK), guidance value : 1 (mg/m³)
Metalworking fluid : Germany (D) : 10 (mg/m³)

8.2. Exposure controls

Personal protection

- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- **Hand protection** : Follow Cimcool Skin Protection Plan (SPP01).
Impervious gloves are recommended when handling product concentrate.
Type of glove (DIN/EN 374): nitril, 0,11mm; minimum breakthrough time: 480 min.
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.
- **Skin protection** : Effective metalworking plant protective clothing as appropriate.
- **Eye protection** : Safety shield or goggles required when handling concentrated product (EN 166).
Consider the particular working conditions under which the goggles are being used.
- Technical protective 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.
Mist levels should comply with local regulations.
- Industrial hygiene** : When using, do not eat, drink or smoke.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- a. **Appearance** : liquid , yellow
- b. **Odour** : mild
- c. **Odour threshold** : not applicable
- d. **Ph** : 9.3 , 5%, distilled water, @20°C [DIN 51369 (7/1981)]
9.1 , 5%, operating, @20°C [DIN 51369 (7/1981)]
- e. **Melting point / Freezing point** : < 0 °C
- f. **Initial boiling point and boiling range** : > 100 °C
- g. **Flash point** : > 100 °C [ASTM D93-80]
- h. **Evaporation rate** : no data available
- i. **Flammability** : not flammable
- j. **Upper/lower flammability or explosive limits** : no data available
- k. **Vapour pressure** : no data available
- l. **Vapour density** : no data available
- m. **Relative density** : 1005 kg/m³, @20°C [DIN 51757/7 (1/1984)]



n. Solubility	: emulsifiable (in water)
o. Partition coefficient n-octanol / water	: no data available
p. Auto-ignition temperature	: not applicable
q. Decomposition temperature	: not applicable
r. Viscosity	: 150 mm ² /s, @20°C [DIN 51562/1 (1/1983)] 55 mm ² /s, @40°C [DIN 51562/1 (1/1983)]
s. Explosive Properties	: not applicable
t. Oxidising properties	: not applicable
9.2. Other information	
none	

The above data are typical values and do not constitute a specification.

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

10.1. Reactivity

None reasonably foreseeable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Formaldehyde may be released below pH of 7.

10.4. Conditions to avoid

< 5°C, > 35°C

10.5. Incompatible materials

Incompatible with strong acids and oxidizing agents.

10.6. Hazardous decomposition products

If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition : See Heading 5.

SECTION 11 TOXICOLOGICAL INFORMATION

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

11.1. Information on toxicological effects

Substance / Mixture

a. Acute toxicity : Mixture.
: Follow the exposure limits given on this material safety data sheet.
Ingestion may cause nausea, vomiting and diarrhea.

Acute toxicity, on ingredients

2-Pyridinethiol, 1-oxide, sodium salt : Rat Inhalation LC50 (mg/l/4h) : 1.08
: Rabbit dermal LD50 (mg/kg) : 1800
: Rat Oral LD50 (mg/kg) : 1800
3,3'-Methylene-bis-[5-methyloxazolidine] : Rat Dermal LD50 (mg/kg) : 1207 - 1620

: Rat Inhalation LC50 (mg/l/4h) : 2
: Rat Oral LD50 (mg/kg) : 900
*** b. Irritation** : Eye irritation: Slightly irritating. / Non-irritating.
According to "Chicken Enucleated Eye Test (CEET)".
Skin irritation: Non-irritating.
According to "In Vitro Skin Corrosion Three Dimensional Reconstituted Human Skin Model Study".
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.

c. Corrosivity

d. Sensitisation

e. Repeated dose toxicity

f. Carcinogenicity

g. Mutagenicity

h. Toxicity for reproduction

: not applicable
: The product contains no substances classified as sensitizing in concentrations \geq 0.1%.
: No chronic toxicity is likely for this product.
: The product contains no substances classified as carcinogenic in concentrations \geq 0.1%.
: The product contains no substances classified as mutagenic in concentrations \geq 0.1%.
: The product contains no substances classified as toxic for reproduction in concentrations \geq 0.1%.



SECTION 12

ECOLOGICAL INFORMATION

12.1. Toxicity

Classification

: Not classified.

Ecotoxicity, on ingredients

Alcohols, C13-15, branched and linear, ethoxylated

: Biodegradation : OESO 301B (28d) > 60 %

: Biodegradation : Product is biodegradable.

2-Pyridinethiol, 1-oxide, sodium salt

: Freshwater Invertebrates Toxicity, EC50/48h : 0.1 - 1 (mg/l)

: 96 H-LC50 - Oncorhynchus mykiss (ug/l) : 1300

: 48 H-LC50 - Daphnia magna (mg/l) : 0.15

3,3'-Methylene-bis-[5-methyloxazolidine]

: Freshwater Invertebrates Toxicity, acute EC50 : 10 - 100 (mg/l)

: Freshwater Fish Toxicity, acute LC50 : 10 - 100 (mg/l)

12.2. Persistence and degradability

Chemical oxygen demand (COD), 1% mix (g O₂/l) = 14.

12.3 Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

This product is not, or does not contain substances which are classified as PBT or vPvB.

12.6. Other adverse effects

None known.

SECTION 13

DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Avoid release to the environment.

Dispose in a safe manner in accordance with local/national regulations.

If pretreatment is needed, chemical emulsion breaking or ultrafiltration may be used.

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

Industrial waste number (EWC) : 120109*. This code is applicable for the product as supplied only. The conditions of use may affect the waste classification after use; see Decision 2000/532/EC and its amendments.

SECTION 14

TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations (ADR, IMDG/IMO, IATA).

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15

REGULATORY INFORMATION

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

Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16****OTHER INFORMATION**

- Product information** : Product does not contain chlorine , diethanolamine .
- List of relevant R phrases (Section 3)** : R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R21/22 - Harmful in contact with skin and if swallowed.
R34 - Causes burns.
R36/38 - Irritating to eyes and skin.
R41 - Risk of serious damage to eyes.
R50 - Very toxic to aquatic organisms.
R52 - Harmful to aquatic organisms.
- List of relevant H phrases (Section 3)** : H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H400 - Very toxic to aquatic life.
- Note** : This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.
Directive 67/548/EEC;
Directive 88/379/EEC (1999/45/EC, 2001/60/EC, 2006/8/EC);
Regulation (EC) No.1907/2006;
Regulation (EC) No.1272/2008 (790/2009/EC);
Regulation (EC) No. 453/2010.
- Revision** : 06/03/2014 Revision - See : * / general update
22/04/2013 Revision 4.
18/10/2012 Revision 3.
20/04/2011 Revision 2.
20/01/2009 Revision 1.

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