



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

- 1.1 Product identifier: **TRIM[®] Microsol 515**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against: Metal removal fluid concentrate.
Supplied as a concentrate and not to be used undiluted.
See 'technical data sheet' for more information.
- 1.3 Details of the supplier of the SDS: MASTER CHEMICAL EUROPE LTD.
33 Maitland Road, Lion Barn Business Park, Needham Market,
Suffolk, IP6 8NZ, UK.
Tel +44 (0)1449 726800 (Office hours only)
Email – info@masterchemical.co.uk
- 1.4 Emergency telephone number. Tel +44 (0)1449 726800 Monday-Friday 8:30am - 5:30pm British Time.
- Revision: Issue 2.3 10/04/14: replaces issue 2.2 30/10/13
Changes since last version:
Additional EUH208 statement added to section 2.2

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the mixture: Classification according to DPD (1999/45/EC).

TRIM[®] Microsol 515 is **Not** classified as hazardous to health or hazardous to the aquatic environment.
- 2.2 Label elements
See section 16 for full text of R phrases No hazard symbol required.
EUH208
Contains 1, 2-benzisothiazolin-3-one. May produce an allergic reaction.
- 2.3 Other hazards De-fatting of the skin may occur with prolonged contact.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture Mixture contains the following hazardous substances at point of manufacture:

	Identifiers	Hazards DPD classification 67/548/EEC	CLP Classification EC no.1272/2008	%
Distillates (petroleum), hydro-treated light naphthenic Mineral oil	CAS 64742-53-6 EC: 265-156-6 REACH# 01-2119480375-34	Xn R65	Asp Tox 1 – H304	10-30
Alkyl carboxylic acid amide	Not available	Xi R36 R38	Skin Irrit 2 H315 Eye Irrit 2 H319	1 - 3
C12/15 alcohol ether phosphate	CAS 68071-35-2	Xi R38 R41	Skin Irrit 2 H315 Eye Dam. 1 H318	1 - 3
Ethoxylated amine	Proprietary	T:R25 Xn R21 Xi R41 N; R51/53	Acute Tox 3 H301, Acute Tox 3 H311 Skin Irrit 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411	1 - 3
2-phenoxyethanol	CAS: 122-99-6	Xn; R22, Xi; R36	Acute Tox.4 H302 Eye Irrit 2 H319	1 - 3
N-cyclohexylcyclohexanamine	CAS 101-83-7 EC: 202-980-7	C:R34 Xn R22 N R50/53	Skin Corr. 1B H314 Acute Tox. 4 H302 Aquatic Chronic 1 H410	<2.0
1,2-benzisothiazolin-3-one	CAS 2634-33-5	Xn; R22 Xi; R41 R38 R43 N; R50	Acute Tox.4 H302 Eye Dam. 1 H318 Skin Irrit 2 H315 Skin Sen 1 H317 Aquatic Acute 1 H400	<0.05

See section 16 for full text of R and H phrases

Exposure limit values exist for the following constituents:
Mineral Oil and 2-phenoxyethanol (see section 8).

SECTION 4: FIRST-AID MEASURES

- 4.1 Description of first aid measures
- Eyes:** In case of eye contact with the concentrate, flush with running water for 15 minutes and seek medical attention.
Skin: In case of skin contact with the concentrate, wash with soap and water. Diluted product is not irritating to the skin when used as recommended and good personal hygiene is practised. Remove severely contaminated clothes. Launder before re-use. If irritation persists, seek medical advice.
Ingestion: If the concentrate or diluted product is swallowed, seek medical attention immediately and obtain treatment.
DO NOT INDUCE VOMITING.
The mouth can be washed out with water only if the person is conscious.
Inhalation: Not expected to be a probable route of exposure to the product concentrate. However, should difficulties result from inhalation then remove person to fresh air and seek medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed
- No ill effects known.
- 4.3 Indication of any immediate medical attention and special treatment needed
- In case of eye contact with the concentrate, flush with running water for 15 minutes and seek medical attention.



SECTION 5: FIRE-FIGHTING MEASURES

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| 5.1 | Extinguishing media: | Water spray, foam or CO ₂ |
| 5.2 | Special hazards arising from the substance or mixture | During combustion, the product may produce oxides of carbon, nitrogen and phosphorous. Phosphine may also be produced together with partially oxidised organic compounds. |
| 5.3 | Advice for fire-fighters | Keep containers cool with water spray. Contain the material and prevent from entering waterways, sewers or drains.
Eye and face protection maybe required together with breathing apparatus. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions, protective equipment and emergency measures | Small quantities of released material are unlikely to present any significant risk. Use protective gloves and eye protection when tackling spills.
For larger quantities prevent from entering waterways, sewers or drains. |
| 6.2 | Environmental precautions | If accidentally released, prevent from entering waterways, sewers or drains. |
| 6.3 | Methods and material for containment and cleaning up: | Contain the spill, collect on absorbent material and discard as directed by any local regulations that may apply. Flush area thoroughly with water. |
| 6.4 | Reference to other sections | Emergency contact information – see section 1.
Personal protective equipment – see section 8. |

SECTION 7: HANDLING AND STORAGE

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| 7.1 | Precautions for safe handling | Avoid contact with the concentrate. Use gloves and eye protection when decanting the product from the container.
Use only as recommended on the Product Data sheet. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store at temperatures between 5° - 35°C.
If frozen, thaw completely at room temperature before use.
Avoid proximity to extreme sources of heat. |
| 7.3 | Specific end use(s) | Metal removal fluid.
The product should be diluted with water prior to use. Typical levels of concentrate in water will range from 4 to 15% by volume. |



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Workplace Exposure Limits (WEL) on substances present in the mixture.

	TWA (8 hrs) mg/m ³	STEL (15 min) mg/m ³
'Oil mist' Mineral oil		
USA (ACGIH)	5	10
2-phenoxyethanol		
Austria	110	110
Germany (AGS)	110	220
Germany (DFG)	110	220
Poland	230	---
Switzerland	110	220

8.2 Exposure controls

Engineering controls:

Exhaust ventilation or other engineering controls should be considered to reduce airborne vapours and mists and therefore minimise substances with a WEL.

Individual protection measures:

A good level of personal hygiene should always be practised when using metalworking fluids.

Respiratory measures: Respiratory equipment is not normally required when adequate natural or local exhaust ventilation is employed.

Eye/face protection: Safety glasses with side shields should be worn

Hand protection: Protective gloves should be worn when handling the concentrate and with prolonged contact with dilutions.

Skin/body protection: Not usually required unless subjected to a high levels of exposure such as cleaning up spills and splashing from machines.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	Does not constitute a specification
	Appearance	Amber coloured Liquid
	Odour	Mild amine
	Odour threshold	No data available
	pH	9.35 at 10% dilution 9.6 undiluted
	Melting point/freezing point	< 0°C
	Initial boiling point/boiling range	100°C due to water content
	Flash point (PMCC)	> 160°C
	Evaporation rate	No data available
	Flammability	Not flammable
	Upper/lower flammability limits	Not applicable
	Vapour pressure mbar @ 20°C	No data available
	Vapour density	No data available
	Relative Density @ 15.5°C	992 Kg/m ³
	Solubility in water	Complete
	Solubility in fat / solvent	Miscible
	Partition coefficient (log Pow)	No data available
	Auto ignition temperature (°C)	No data available
	Decomposition temperature	No data available
	Viscosity (mPa.s @ 40°C)	No data available
	Explosive properties	No explosive properties
	Oxidising properties	No oxidising properties
9.2	Other information	None

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	No dangerous reactions known.
10.2	Chemical stability	Stable under normal conditions of use and storage.
10.3	Possibility of hazardous reactions	None known.
10.4	Conditions to avoid	None known.
10.5	Incompatible materials	Strong oxidisers, acids and alkalis.
10.6	Hazardous decomposition products	None known.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The following information is derived using the conventional method as recommended by EC guidelines given in Directive 1999/45/EC as well as experience from this and similar products.

Acute Toxicity

Oral

No substances present at levels to cause classification of the mixture.
LD50 by calculation - >10,000mg/kg

Dermal

No substances present at levels to cause classification of the mixture.
LD50 by calculation - >10,000mg/kg

Inhalation

No substances present at levels to cause classification of the mixture.
LD50 by calculation - >1000mg/L

Corrosivity/Irritation

Eye

No corrosive or irritant substances present at levels to cause classification of the mixture, however accidental contact is likely to cause transient stinging and/or redness of the eye.

Skin

No corrosive or irritant substances present at levels to cause classification of the mixture, however 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 or when contact has been prolonged.

Respiratory tract

No corrosive or irritant substances present at levels to cause classification of the mixture. Inhalation of diluted mix can occur in applications where high mist levels are generated. Concentrations of mist in the working atmosphere must be kept as low as possible.

Sensitisation

Skin

No sensitisers present at levels to cause classification of the mixture.
No evidence of sensitisation effects.

Respiratory

No sensitisers present at levels to cause classification of the mixture.
No evidence of sensitisation effects.

Repeated dose toxicity

No data available on effects of repeated skin contact.

Carcinogenicity

No evidence of carcinogenicity for the mixture.

Mutagenicity

No evidence of mutagenicity for the mixture.

Toxicity for reproduction

No evidence of reproductive toxicity for the mixture.



SECTION 12: ECOLOGICAL INFORMATION

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| 12.1 | Toxicity | No specific toxicity data is available for the mixture.
Product contains a small quantity of an eco-toxic substance at point of manufacture; however, the material in the finished product is not in a form or of a quantity that requires the product to be labelled as hazardous to the environment. |
| 12.2 | Persistence and degradability | Mixture is not readily biodegradable
Substances that contribute to the mixtures persistence:

Distillates (petroleum), hydro-treated light naphthenic CAS: 64742-53-6
Inherently but not readily biodegradable.

Ethoxylated amine
OECD 301D approx 60% 28days. |
| 12.3 | Bio-accumulative potential | No data available for the mixture.
No data available for substances that contribute. |
| 12.4 | Mobility in soil | No specific data available for the mixture but its water solubility dictates a high level of mobility. |
| 12.5 | Result of PBT and vPvB assessments | No PBT or vPvB materials present. |
| 12.6 | Other adverse effects | Due to the composition of mineral oil containing water soluble metalworking fluids, these products should not be allowed into the aquatic environment before treatment. |

SECTION 13: DISPOSAL CONSIDERATIONS

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| 13.1 | Waste treatment methods | Disposal procedures must comply with local regulations. If pre-treatment is needed, chemical 'cracking' or ultra-filtration may be used.
Waste metalworking fluids may be classified as hazardous wastes under the Hazardous Waste (England and Wales) Regulations 2005 (HWR) (SI 2005/894) with waste code 12 01 09* <i>machining emulsions and solutions free of halogens.</i> |
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SECTION 14: TRANSPORT INFORMATION

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| 14.1 | UN Number | Not applicable. |
| 14.2 | UN proper shipping name | Not applicable. |
| 14.3 | Transport hazard class(es) | Not classified as hazardous for transport. |
| 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 IBC code. | Not applicable. |



SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture
- Mixture has been classified under the Dangerous Preparations Directive (DPD 1999/45/EC) using the conventional calculation method.
- SDS prepared under REACH Regulation EC no. 453/2010 Annex I.
- REACH – This product is sold into Europe in compliance with the current requirements of REACH.
- Product has been checked for classification under transport regulations: CDG/ADR/RID/IMDG/ICAO/IATA.
- Other pertinent regulations:
Occupational Exposure Limits - Directives 2000/39/EC, 2006/15/EC and 2009/161/EU.
Personal protective equipment: Directive 89/686/EEC.
REACH - Substances of very high concern.
- 15.2 Chemical safety assessment
- No formal chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Water hazard class (Germany) WGK 1

This product is free from:
Phenols and phenolic compounds,
Chlorine and Sulphur EP additives.
Secondary amines that form Nitrosamines.
Formaldehyde and formaldehyde donors.

This product contains non-hazardous Boron esters.

Full text of hazard phrases not detailed elsewhere:

DPD

Full text of abbreviated R phrases

Abbreviation	Signal word	Code	Hazard statement
X _n	Harmful	R21	Harmful in contact with skin
X _n	Harmful	R22	Harmful if swallowed
T	Toxic	R25	Toxic if swallowed
C	Corrosive	R34	Causes burns.
X _i	Irritant	R36	Irritating to eyes
X _i	Irritant	R38	Irritating to skin
X _i	Irritant	R41	Risk of serious damage to eyes
X _i	Irritant	R43	May cause sensitisation by skin contact
N	Dangerous for the environment	R50	Very toxic to aquatic organisms
N	Dangerous for the environment	R50/53	Very toxic to aquatic organisms, may cause long term adverse effect in the environment
N	Dangerous for the environment	R51/53	Toxic to aquatic organisms, may cause long term adverse effect in the environment
X _n	Harmful	R65	Harmful: may cause lung damage if swallowed



SECTION 16: OTHER INFORMATION continued

CLP

Full text of abbreviated H phrases

Abbreviation	Full Text	Signal word	Code	Hazard statement
Acute Tox 3	Acute Toxicity, Oral Category 3	Danger	H301	Toxic if swallowed
Acute Tox 4	Acute Toxicity, Oral Category 4	Warning	H302	Harmful if swallowed
Asp Tox 1	Aspiration hazard Category 1	Danger	H304	Maybe fatal if swallowed and enters airways
Acute Tox 3	Acute Toxicity, dermal Category 3	Danger	H311	Toxic in contact with skin
Skin Corr. 1B	Skin corrosion/Irritation Category 1B	Danger	H314	Causes severe skin burns and eye damage
Skin Irrit 2	Skin corrosion/Irritation Category 2	Warning	H315	Causes skin irritation
Skin Sen. 1	Sensitization, skin Category 1	Warning	H317	May cause an allergic reaction
Eye Dam 1	Serious eye damage/Eye irritation Category 1	Danger	H318	Causes serious eye damage
Eye Irrit 2	Serious eye damage/Eye irritation Category 2	Warning	H319	Causes serious eye irritation
Aquatic Acute 1	Hazardous to the aquatic environment, acute hazard Category 1	Warning	H400	Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard Category 1	Warning	H410	Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard Category 2	Warning	H411	Toxic to aquatic life with long lasting effects