

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: Eurolube F5133 Rust Remover and Metal Brightener
 Product Code: Eurolube Formula 5133
 General Description: Acid-based liquid metal remover

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Identified uses: to remove corrosion contaminants on metal parts

1.3 Details of the supplier of the safety data sheet

Name of Supplier: United Resources Marketing Services Pte Ltd
 Address of Supplier: 20 Bukit Batok Crescent
 #05-20 Enterprise Centre
 Singapore 658080
 Telephone: +65 6764 3172 (main)
 Fax: +65 6764 5615
 Email: enquiry@unitedrm.com.sg

1.4 Emergency telephone number: +65 6764 3172

2. HA ZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008 [EU -GHS/CLP] , labelling and packaging of substances and mixtures
- In compliance with The Dangerous Substances Directive (67/548/EEC)

2.2 Label elements

Pictogram



Risk Phrases:

- Causes burns (R34)

Safety Phrases:

- Keep locked up and out of reach of children (S1/2)
- Avoid contact with skin and eyes (S24/25)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable gloves and eye/face protection (S37/39)
- If swallowed, seek medical advice immediately and show this container or label (S46)

2.3 Other hazards

- Ingestion of significant amounts may damage digestive system and internal organs
- Vapours or aerosols may cause irritation to eyes, nose and respiratory tract. May cause damage to lungs.

3. COMPOSITION / INFORMATION OF INGREDIENT

Risk phrases in this section apply only to raw material, not necessarily finished product. See Hazards Identification (Section 2).

Material	Conc %	CAS Number	EC Number	R/H Phrases	Symbols
Phosphoric acid mixture	50 - 60	7644-38-8	231-633-2	R34	C
Nonylphenol Ethoxylates	10 - 15	25154-52-3	-	R41	Xi
QAC	1 - 5	68424-95-3	270-325-2	R10/20/21/22	Xi

4. FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN: Remove all contaminated clothing. Wash under running water for 10 minutes. Apply emollient cream. Seek medical attention if irritation persists.

- IF IN EYES:** Rinse immediately with plenty of water and continue for at least 10 to 15 minutes. Remove contact lenses, if needed and able to. Seek medical attention immediately.
- IF INGESTED:** Rinse mouth and DO NOT induce vomiting. Give plenty of water to drink. Do not make unconscious person vomit or drink fluids. Seek medical attention immediately.
- IF INHALED:** Facilitate fresh air to the affected person immediately. Keep warm and rest and plenty of water to drink. If condition persists, seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Causes damage to eyes, skin and mucous membranes.

5. FIRE FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media

- Product is non-flammable. Use fire-extinguishing material suitable for the surrounding conditions.

5.2 Specific hazards arising from the chemical

- Noxious and toxic fumes will be emitted if product is involved in a fire. Take precautions to protect personnel from exposure.

5.3 Special protective equipment and precautions for fire-fighters

- Wear positive pressure, self-contained breathing apparatus for fire-fighting.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Wear personal protective clothing as described in Section 8.3.

6.2 Environmental precautions

- No special precautions are required for this product.

6.3 Methods and materials for containment and cleaning up

- Clean up with chemical absorbents and dispose to designated chemical waste container. Cleanse affected area with plenty of water to prevent slip and fall. See 'Disposal Considerations' (Section 13).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- Wear personal protective clothing as described in Section 8.3
- Avoid contact with skin and eyes (S24/25)
- Eyewash/safety showers should be available

7.2 Conditions for safe storing, including any incompatibilities

- Store in dry and cool area and in original container.
- Keep away from bleach and strong alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- Phosphoric acid [TLV(TWA) 1mg/m3]
- Nonyl phenol Ethoxylates [TLV(TWA) 10mg/m3]

8.2 Appropriate engineering controls

- No special precautions are required for this product

8.3 Individual protection measures

- Hands protection: Use suitable chemical protective gloves.
- Eyes protection: Wear approved chemical safety goggles.
- Respiratory protection: No specific recommendation, but respiratory/face protection may be required when product is used in vapour or mist form.
- Other protection: Wear appropriate clothing.
- Hygiene Measures: Make eyewash and showers accessible. Wash at the end of each work shift and before meals.



Visor



Gloves



Coverall



Goggles

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Pink Liquid
Odour	Pungent
pH	1.05 – 1.15 at 1% concentration, 25°C
Melting/freezing point	<0°C at 760mm/Hg
Boiling point	>100°C at 760mm/Hg
Flash point	Not applicable
Evaporation rate	[BLANK]
Flammability	Non flammable
Vapour pressure	Not known
Vapour density	1.15
Specific gravity	1.177 ± 0.2
Solubility	Complete in water

10. STABILITY AND REACTIVITY

10.1 Chemical Stability

- This mixture is stable for storage and use under normal conditions

10.2 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose. Polymerization will not occur.

10.3 Conditions to avoid

- Avoid overheating.

10.4 Incompatible materials

- Keep away from strong bases or alkalis. Toxic gas from neutralization occurs.

10.5 Hazardous decomposition products

- No hazardous decomposition products known

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Not known

11.2 Inhalation

- Can cause damage to respiratory system [(hmn) LCLo : 3000ppm / 5 min orl (rat) LD₅₀ : 900 mg/kg]

11.3 Contact with skin

- Cause severe burns (R35)

11.4 Contact with eyes

- Cause severe burns (R35)

11.5 Ingestion

- Ingestion of significant amount may cause damage to mucous membrane

12. ECOLOGICAL INFORMATION

12.1 Eco-toxicity

- May cause acute effects in the aquatic environment [LD₅₀ @ pH of 3 – 3.6 / LC₈₀ (72 hours): 56mg/L]

12.2 Persistence and degradability

- Product will dissociate completely in water and are inherently biodegradable

12.3 Bio accumulative potential

- Bioaccumulation of the components in this product is insignificant

12.4 Mobility in soil

- Completely soluble in water

12.5 Other adverse effects

- The product will not cause environmental issues if used / disposed correctly. It presents little or no hazard to aquatic environment. Might affect pH of fluid medium if excess amount is disposed incorrectly.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal of Product

- Do not discharge product into drains or environment, only dispose to authorized chemical waste collection point. Disposal should be done in compliance with local regulatory legislation.

13.2 Disposal of Packaging

- Recycle used containers only if facilities are available else incineration is recommended.
- Otherwise, use landfill as alternative disposable option. Be sure to comply with local authority regulation.

14. TRANSPORT INFORMATION

14.1 Basic information for transport

- UN Number: 1760
- UN Proper shipping name: Corrosive liquids, n.o.s.
- Transport Hazard class(es): 8
- Packing group: III
- Environmental Hazards: No

14.2 Special precautions for user

- Forbidden on passenger aircraft

14.3 Other information

Air (ICAO/IATA)	- UN1760 Corrosive liquids / Class 8 Packaging Group III
Sea (IMDG)	- UN1760 Corrosive liquids / Class 8 Packaging Group III
Road (ADR)	- UN1760 Corrosive liquids / Class 8 Packaging Group III
DOT / CFR	- UN1760 Corrosive liquids / Class 8 Packaging Group III

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product

- Regulation (EC) No 1272/2008 [EU -GHS/CLP] , labelling and packaging of substances and mixtures
- The Dangerous Substances Directive (67/548/EEC)
- Regulation (EC) No. 1907/2006

15.2 Safety, health and environmental regulations specific for the product

- No data available

15.3 Chemical Safety Assessment

- No data available

16. OTHER INFORMATION

Data from the following sources have been used to compile this document.

HSE - EH40/93: Occupational exposure limited 1993. Suppliers Health and Safety Data.

HSE - EH29/93: Occupational skin diseases: Health and Safety Precaution

HSC - Safety Data Sheets for substances and preparation dangerous for supply.

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NOTE:

The information presented is accurate to the best of our knowledge. Since any applications and conditions of use are outside of our control, all recommendations and suggestions must be made without guarantee.

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