NORMAKLEEN RC910

SUBID : 000001007350

Version 2
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name	:	NORMAKLEEN RC910
Use of the Substance/Preparation	:	Emulsion cleaner

Company/Undertaking Identification

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2. HAZARDS IDENTIFICATION

EC-classification:

Symbol(s)	:	Xn	Harmful
R-phrase(s)	:	R36	Irritating to eyes.
		R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		R65	Harmful: may cause lung damage if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 15.
Full text of each relevant R-phrase is listed in section 16.

Emulsion cleaner, mainly consisting of:

Hazardous components

- Distillates (petroleum), hydrotreated light; Kerosine - unspecified — Concentration [%] : 20.0 - 30.0
  - CAS-No. : 64742-47-8
  - Index-No. : 649-422-00-2
  - EINECS-No. : 265-149-8
- 1,2,4-Trimethylbenzene — Concentration [%] : 5.0 - 10.0
  - CAS-No. : 95-63-6
  - Index-No. : 601-043-00-3
  - EINECS-No. : 202-436-9
  - Symbol(s) : Xn, N
  - R-phrase(s) : R10, R20, R36/37/38, R51/53
- Citric acid — Concentration [%] : 1.0 - 5.0
  - CAS-No. : 77-92-9
  - EINECS-No. : 201-069-1
  - Symbol(s) : Xi
  - R-phrase(s) : R36

- Phosphoric acid — Concentration [%] : 1.0 - 5.0
  CAS-No. : 7664-38-2
  Index-No. : 015-011-00-6
  EINECS-No. : 231-633-2
  Symbol(s) : C
  R-phrase(s) : R34
- Fatty alcohol ethoxylate — Concentration [%] : 1.0 - 5.0
  CAS-No. : 9004-95-9
  Symbol(s) : Xn
  R-phrase(s) : R22, R41
- 1,3,5-Trimethylbenzene — Concentration [%] : 1.0 - 5.0
  CAS-No. : 108-67-8
  Index-No. : 601-025-00-5
  EINECS-No. : 203-604-4
  Symbol(s) : Xi, N
  R-phrase(s) : R10, R37, R51/53
- Isopropylbenzene — Concentration [%] : 0.5 - 1.0
  CAS-No. : 98-82-8
  Index-No. : 601-024-00-X
  EINECS-No. : 202-704-5
  Symbol(s) : Xn, N
  R-phrase(s) : R10, R37, R51/53, R65
- Xylene — Concentration [%] : 0.1 - 0.5
  CAS-No. : 1330-20-7
  Index-No. : 601-022-00-9
  EINECS-No. : 215-535-7
  Symbol(s) : Xn
  R-phrase(s) : R10, R20/21, R38
- Isothiazolinones — Concentration [%] : 0.0 - 0.1
  CAS-No. : 55965-84-9
  Index-No. : 613-167-00-5
  Symbol(s) : T, N
  R-phrase(s) : R23/24/25, R34, R43, R50/53

Other

- Ethoxylated tridecyl alcohol — Concentration [%] : 0.1 - 1.0

4. FIRST AID MEASURES

Eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	:	Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
Ingestion	:	Do not induce vomiting. Obtain medical attention.
Inhalation	:	Take person to fresh air. If necessary, seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2)., Foam., Dry sand., Dry extinguishing powder.
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire.
Further information	:	Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	See section : Exposure controls / personel protection.
Environmental precautions	:	For waste disposal see section 13.
Methods for cleaning up	:	Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
Additional advice	:	If substance has entered a water course or sewer or contaminated soil or vegetation advise fire brigade or police.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition.Take precautionary measures against static discharges.

Storage

Requirements for storage areas and containers	:	Keep container tightly closed.Keep container in a well-ventilated place.
Advice on common storage	:	Store away from strong alkalis and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
1,2,4-Trimethylbenzene	95-63-6	100 mg/m3	TWA	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Phosphoric acid	7664-38-2	1 mg/m3	TWA	05 2001	EU ELV
		2 mg/m3	STEL	05 2001	EU ELV
		1 mg/m3	TWA	2005	EH40 WEL
		2 mg/m3	STEL	2005	EH40 WEL
1,3,5-Trimethylbenzene	108-67-8	100 mg/m3	TWA	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Isopropylbenzene	98-82-8	100 mg/m3	TWA	05 2003	EU ELV
		250 mg/m3	STEL	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
		250 mg/m3	STEL	2005	EH40 WEL
Xylene	1330-20-7	221 mg/m3	TWA	05 2001	EU ELV
		442 mg/m3	STEL	05 2001	EU ELV
		220 mg/m3	TWA	2005	EH40 WEL
		441 mg/m3	STEL	2005	EH40 WEL

Exposure controls

Engineering measures	:	Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
Hygiene measures	:	Observe normal precautions when handling chemicals. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.

Hand protection	:	Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness >= 0.38 mm, breakthrough time > 480 min) or neoprene (thickness >= 0.65 mm, breakthrough time > 240 min). For intermittent splash protection corresponding gloves with breakthrough times > 60 min can be used. Avoid gloves made of: butyl rubber. Avoid gloves made of: natural latex.
Eye protection	:	Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	:	Liquid.
Colour	:	White.
Odour	:	Smell of petroleum

Important Health Safety and Environmental Information

Relative density (20 °C)	:	0.951
Solubility/qualitative	:	Partially miscible with water.
pH	:	1.5
Melting point/range	:	< 0 °C
Boiling point/range	:	100 to 200 °C
Flash point	:	> 62 °C

10. STABILITY AND REACTIVITY

Stability	:	The product is stable under normal conditions of storage and use.
Conditions and materials to avoid	:	Avoid contact with strong alkalis and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Irritating to eyes.
Harmful: may cause lung damage if swallowed.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• 1,2,4-Trimethylbenzene	:	LD50 rat	5,000 mg/kg
• Citric acid	:	LD50 rat	3,000 mg/kg
• Phosphoric acid	:	LD50 rat	1,530 mg/kg
• Fatty alcohol ethoxylate	:	LD50 rat	2,500 mg/kg
• 1,3,5-Trimethylbenzene	:	LD50 rat	5,000 mg/kg
• Isopropylbenzene	:	LD50 rat	1,400 mg/kg
• Xylene	:	LD50 rat	4,300 mg/kg
• Isothiazolinones	:	LD50 rat	> 2,000 mg/kg

Acute inhalation toxicity

• 1,2,4-Trimethylbenzene	:	LC50 rat	18 mg/l/ 4 h
• Phosphoric acid	:	LC50 rat	> 0.2 mg/l/ 4 h
• 1,3,5-Trimethylbenzene	:	LC50 rat	24 mg/l/ 4 h

• Isopropylbenzene	:	LC50 rat	39 mg/l/ 4 h
• Xylene	:	LC50 rat	6,350 mg/l/ 4 h

Acute dermal toxicity

• Citric acid	:	LD50 rabbit	5,500 mg/kg
• Phosphoric acid	:	LD50 rabbit	2,740 mg/kg
• Isopropylbenzene	:	LD50 rabbit	10,580 mg/kg
• Xylene	:	LD50 rabbit	4,500 mg/kg
• Isothiazolinones	:	LD50 rat	> 5,000 mg/kg

Other information

Hazard labelling of this preparation or substance : see section 15.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

• Citric acid	:	OECD 302B Inherent biodegradability 98 % after 2 d
• Xylene		OECD 301D Assessment of biological degradability 25 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

• 1,2,4-Trimethylbenzene	:	Species: Pimephales promelas (fathead minnow) LC50: 7.7 mg/l/ 96 h
• Citric acid	:	Species: Leuciscus idus (golden orfe) LC50: 760 mg/l/ 48 h
• 1,3,5-Trimethylbenzene	:	Species: Carassius auratus (goldfish) LC50: 12.5 mg/l/ 96 h
• Isopropylbenzene	:	Species: Leuciscus idus (golden orfe) LC50: 22.5 mg/l/ 48 h
• Xylene	:	Species: Pimephales promelas (fathead minnow) LC50: 13.4 mg/l/ 96 h

Toxicity to daphnia

• 1,2,4-Trimethylbenzene	:	Species: Daphnia magna (water flea) EC50: 3.6 mg/l/ 48 h
• Citric acid	:	Species: Daphnia magna (water flea) EC50: 120 mg/l/ 72 h
• Phosphoric acid	:	Species: Daphnia magna (water flea) EC50: > 100 mg/l/ 96 h
• 1,3,5-Trimethylbenzene	:	Species: Daphnia magna (water flea) EC50: 50 mg/l/ 24 h
• Isopropylbenzene	:	Species: Daphnia magna (water flea) EC50: 2 mg/l/ 24 h
• Xylene	:	Species: Daphnia magna (water flea) EC50: 81 mg/l/ 24 h

Toxicity to algae

• Citric acid	:	Species: Scenedesmus quadricauda (algae) EC5: 640 mg/l/ 7 d
• 1,3,5-Trimethylbenzene	:	Species: Scenedesmus subspicatus (algae) EC50: > 25 mg/l/ 48 h
• Xylene	:	Species: Scenedesmus subspicatus (algae) EC50: 110 mg/l/ 48 h

Toxicity to bacteria

• Citric acid	:	Species: Pseudomonas putida (bacteria) EC5: > 10,000 mg/l/ 16 h
• Phosphoric acid	:	Species: Pseudomonas putida (bacteria) EC50: 270 mg/l/ 16 h
• Isopropylbenzene	:	Species: Pseudomonas putida (bacteria) EC10: 245 mg/l/ 24 h
• Xylene	:	Species: Pseudomonas putida (bacteria) EC50: 1,000 mg/l/ 15 h

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. Do not release into drain. Collect for removal by a licensed waste contractor.

For waste resulting from this product, it is recommended to use European Waste Code : 14 06 03 (other solvents and solvent mixtures).

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

• CAS-No.	:	64742-47-8	Distillates (petroleum), hydrotreated light; Kerosine - unspecified
Symbol(s)	:	Xn	Harmful
R-phrase(s)	:	R36	Irritating to eyes.
		R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		R65	Harmful: may cause lung damage if swallowed.
S-phrase(s)	:	S23	Do not breathe gas/fumes/vapour/spray.
		S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Further information

Text of R-phrases referred to under headings 2 and 3:

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.