



SAFETY DATA SHEET

MRC

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME MRC

APPLICATION A metering roller cleaner & general degreaser

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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CYCLOPENTANE	206-016-6	287-92-3	5-10%	F;R11 R52/53
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
HEPTANE	205-563-8	142-82-5	30-50%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))			10-30%	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
HEXANE-norm	203-777-6	110-54-3	1-5%	F;R11 Repr3;R62 Xn;R65,R48/20 Xi;R38 R67 N;R51/53
METHANOL	200-659-6	67-56-1	< 1	F;R11 T;R23/24/25,R39/23/24/25
METHYLCYCLOHEXANE	203-624-3	108-87-2	5-10%	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
PENTANE	203-692-4	109-66-0	1-5%	F+;R12 Xn;R65 R66 R67 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

A petroleum distillate blend.

3 HAZARDS IDENTIFICATION

Highly flammable. Irritating to skin. Vapours may cause drowsiness and dizziness. Harmful: may cause lung damage if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R65. Xi;R38. F;R11. N;R51/53. R67.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention immediately!

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SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Carbon dioxide (CO₂). Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Do not let washing down water contaminate ponds or waterways. Wear necessary protective equipment.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Maintain good standards of hygiene and work practices. Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place. Keep in original container. Protect against physical damage and/or friction. May attack some plastics, rubber and coatings.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
CYCLOPENTANE	WEL	600 ppm	1700 mg/m ³		
ETHANOL	WEL	1000 ppm	1920 mg/m ³		
HEPTANE	WEL	500 ppm			
HEXANE-norm	WEL	20 ppm	72 mg/m ³		
METHANOL	WEL	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)
METHYLCYCLOHEXANE	WEL	400 ppm		500 ppm	
PENTANE	WEL	600 ppm	1770 mg/m ³	750 ppm	

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



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ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level.

HAND PROTECTION

Nitrile.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Hydrocarbon		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>63 @ 760 mm Hg	RELATIVE DENSITY	0.69 g/ml @ 20°C
VAPOUR PRESSURE	16.0 / 92.0 kPa @ 20 / 50°C	FLASH POINT (°C)	- 26 CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	>200	FLAMMABILITY LIMIT - LOWER(%)	1.1
FLAMMABILITY LIMIT - UPPER(%)	7.4		

10 STABILITY AND REACTIVITY

STABILITY

Avoid: Heat, sparks, flames. Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS

Not known.

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

INHALATION. May cause irritation to the respiratory system. Solvent vapours are hazardous and may cause nausea, sickness and headaches. SKIN CONTACT. Irritating to skin. EYE CONTACT. Direct contact with the eye may cause irritation. INGESTION. May cause discomfort. Aspiration into the lungs during ingestion or subsequent vomiting will cause severe lung damage.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Volatile Organic Content (%) is equal to 95 - 100

MOBILITY

Solubility in water: Immiscible with water

BIOACCUMULATION

No data available.

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DEGRADABILITY

No data available.

ACUTE FISH TOXICITY

No data available.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

Regulation 2000/532/EC - Chapter Heading: Waste from MFSU of fine chemicals and chemical products not otherwise specified - 070704. Description: Other organic solvents, washing liquids and mother liquors.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	Petroleum Distillates N.O.S. (Refined Hydrocarbons)		
ROAD TRANSPORT NOTES	Vapour Pressure at 50 DegC is less than 110 kPa		
UN NO. ROAD	1268	UK ROAD PACK GR.	II
ADR CLASS	Class 3: Flammable liquids.	ADR LABEL NO.	3
RID CLASS NO.	3	UN NO. SEA	1268
IMDG CLASS	3	IMDG PACK GR.	II
EMS	F-E , S-E		

15 REGULATORY INFORMATION**LABELLING**

Harmful



Highly Flammable



Dangerous for the environment

CONTAINS

HEPTANE

HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))

RISK PHRASES

R11	Highly flammable.
R38	Irritating to skin.
R67	Vapours may cause drowsiness and dizziness.
R65	Harmful: may cause lung damage if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.

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S57	Use appropriate containment to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
S43B	In case of fire, use Carbon Dioxide (CO2), Foam or Powder extinguisher.

EU DIRECTIVES

Dangerous Substances Directive (67/548/EEC). Dangerous Preparations Directive (1999/45/EC). Safety Data Sheets Directive (91/155/EEC) (As amended).

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION COMMENTS

UPDATES

ISSUED BY

Day International Chemical Products Division

REVISION DATE 18/11/02

REV. NO./REPL. SDS 14/11/02

GENERATED

SDS NO. 4

RISK PHRASES IN FULL

R11	Highly flammable.
R12	Extremely flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R38	Irritating to skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
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.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

The information in this material Safety Data Sheet is based on the present state of our knowledge and on the current EC and National Regulations. The information relates to the specific product designated and may not be valid if it is used in combination with other materials or process. Nothing herein is to be construed as warranty, expressed or implied. It is always the responsibility of the user to take the necessary steps in order to fulfil the demands laid down in the rules and legislation. The product is for Industrial use only.