

SAFETY DATA SHEET

Redex Diesel Engine System Cleaner 500ml

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME Redex Diesel Engine System Cleaner 500ml
PRODUCT NO. 73141120001, RDX07, 73141120004, 73141120127, 73141120033, 73141120089, 73141120133, 73141120101, 73141120112, 314112

MANUFACTURER Holt Lloyd
Oakhurst Drive
Cheadle
Manchester
+44 (0)161 491 7391
+44 (0)161 491 7399

EMERGENCY TELEPHONE FR - INRS Tél: 01.45.42.59.59
B - Antigifcentrum Tél: +32.70.245.245
NL - Rijksinstituut voor Volksgezondheid en Milieuhygiëne: tel. +31 (0)30 2748888
UK - Out of office hours Tel: 020 7358 9167

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|---|-----------|------------|---------|----------------------------------|
| Naphtha (petroleum), hydrotreated heavy | 265-150-3 | 64742-48-9 | 60-100% | Xn;R65. R10,R66. |
| 2-ETHYL HEXYL NITRATE | | 27247-96-7 | 1-5% | Xn;R20/21. R44. |
| Petroleum naphtha heavy aromatic | 265-198-5 | 64742-94-5 | < 1% | Xn;R65. N;R51/53. R66,R67. |
| NAPHTHALENE | 202-049-5 | 91-20-3 | < 1% | Carc. Cat. 3;R40 Xn;R22 N;R50/53 |

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

3 HAZARDS IDENTIFICATION

Flammable. Repeated exposure may cause skin dryness or cracking. Harmful: may cause lung damage if swallowed.

CLASSIFICATION Xn;R65. R10, R66.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur 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 and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: 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

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

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7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|-------------|-----|----------|------------|----------|------------|
| NAPHTHALENE | WEL | 10 ppm | 53 mg/m3 | 15 ppm | 80 mg/m3 |

INGREDIENT COMMENTS

OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. EN374 Rubber gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

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. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin 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 | Black | | |
| ODOUR | Characteristic Hydrocarbon | | |
| SOLUBILITY | Immiscible with water Soluble in Aromatic solvents Hydrocarbons. | | |
| RELATIVE DENSITY | 0.774 | FLASH POINT (°C) | >21°C <61°C |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

INHALATION. Prolonged inhalation of high concentrations may damage respiratory system. SKIN CONTACT. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation. EYE CONTACT. May cause severe irritation to eyes. INGESTION.

The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.

TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

12 ECOLOGICAL INFORMATION

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ECOTOXICITY

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

| | | | |
|----------------------|---|------------------|-----|
| GENERAL | Limited Quantities | | |
| PROPER SHIPPING NAME | FLAMMABLE LIQUID, NOS (Petroleum naphtha hydrotreated, heavy 96%) | | |
| UN NO. ROAD | 1993 | ADR CLASS NO. | 3 |
| ADR CLASS | Class 3: Flammable liquids. | RID CLASS NO. | 3 |
| UN NO. SEA | 1993 | IMDG CLASS | 3 |
| EMS | F-E, S-E | MARINE POLLUTANT | No. |
| UN NO. AIR | 1993 | ICAO CLASS | 3 |
| AIR PACK GR. | III | | |

15 REGULATORY INFORMATION

LABELLING



Harmful

CONTAINS

Naphtha (petroleum), hydrotreated heavy

RISK PHRASES

| | |
|-----|---|
| R10 | Flammable. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R65 | Harmful: may cause lung damage if swallowed. |

SAFETY PHRASES

| | |
|-----|---|
| S2 | Keep out of the reach of children |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

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).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and use of transportable pressure equipment regulations 2004.

16 OTHER INFORMATION

ISSUED BY

Technical Department

REV. NO./REPL. SDS GENERATED 1

SDS NO. 12806

SAFETY DATA SHEET STATUS

Approved.

DATE 05-12-05

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RISK PHRASES IN FULL

| | |
|--------|--|
| R10 | Flammable. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R22 | Harmful if swallowed. |
| R40 | Limited evidence of a carcinogenic effect. |
| R44 | Risk of explosion if heated under confinement. |
| 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. |
| 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

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.