PRODUCT HEALTH AND SAFETY DATA

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product : HAIRAWAY EASYCLEAN

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	APPROXIMATE CONCENTRATION
None	-

3. HAZARD IDENTIFICATION

This product contains a hydrocarbon solvent.

When used with the recommended procedures and precautions, the product is not considered to present a significant health hazard. Prolonged and repeated skin exposure could cause dermatitis and hence should be minimized whilst observing a good standard of personal hygiene. Handling precautions should be strictly observed.

Aspiration of liquid into the lungs directly or a result of vomiting following ingestion of the liquid, can cause severe lung damage and death.

Handling precautions including good ventilation practice should be observed.

Vapor concentrations above recommended exposure levels may be irritating to the eyes and respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous effects.

4. FIRST AID

INHALATION:
In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

4. FIRST AID (Continued)

SKIN CONTACT:
Wash thoroughly with plenty of water, using soap if available.
Remove contaminated clothing.
If irritation occurs and persists, get medical attention.

EYE CONTACT:
Rinse immediately with plenty of water until irritation subsides.
If irritation persists, obtain medical advice.

INGESTION:
DO NOT induce vomiting since it is important that no amount of the material should enter the lungs (aspiration). Keep at rest.
Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:
Foam, dry chemical powder, carbon dioxide.

FIRE AND EXPLOSION HAZARDS:
Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.

Static discharge; material can accumulate static charges which may cause an incendiary electrical discharge.

SPECIAL FIRE-FIGHTING PROCEDURES:
Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

HAZARDOUS COMBUSTION PRODUCTS:
Smoke, carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: See Section 8.

LAND SPILL:
Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers.
If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL:
Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

7. HANDLING AND STORAGE

Store the product in cool, well ventilated surroundings, well away from sources of ignition.
Provide suitable mechanical equipment for the safe handling of drums and heavy packages.
Electrical equipment and fittings must comply with local regulations regarding fire prevention with this class of product.

LOAD/UNLOAD TEMPERATURE deg. C: Ambient to max. 50 C
STORAGE TEMPERATURE deg. C: Ambient to max. 50 C

SPECIAL PRECAUTIONS:
Use the correct grounding procedure.

Keep containers closed when not in use.

Prevent small spills and leakages to avoid slip hazard.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT:
Exxon recommends 300 ppm (TWA, 8-hour workday) based upon composition (Analysis according to UK HSE Method 60, HSE Methods for the Determination of Hazardous Substances).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (Continued)

PERSONAL PROTECTION:
In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required.

Eye protection should only be worn when the chemical is being "sprayed".

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOUR:
Clear colourless liquid, petroleum hydrocarbon odour.

DENSITY, g/ml: 0.8 at 15 deg. C DIN 51 757

BOILING RANGE: 196.0 - 240.0 deg. C DIN 51 751

VISCOSITY, mm2/S: 1.6 at 40 deg. C DIN 51 562

VAPOUR PRESSURE, kPa: < 0.1 at 20 deg. C

VAPOUR DENSITY AT 1 BAR (Air=1): Heavier than air.

EVAPORATION RATE (n-butyl acetate=1): < 0.1

SOLUBILITY IN WATER: Negligible.

pH: Not Applicable.

FLASH POINT: 74 deg. C METHOD: PMCC DIN 51 758

FLAMMABILITY LIMITS IN AIR, % BY VOL:
LEL: 0.6 UEL: 6.5 (approx.)

AUTOIGNITION TEMPERATURE: Data not available.

PARTITION COEFFICIENT n-octanol/water: Data not available.

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC): Stable

CONDITIONS TO AVOID:
Keep away from heat sources, open flames and other sources of ignition.

10. STABILITY AND REACTIVITY (Continued)

INCOMPATIBLE MATERIALS:
Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:
Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

Product does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE:

INHALATION:
Negligible hazard at ambient/normal handling temperatures.

Elevated temperatures or mechanical action may form vapours, mists, or fumes which may be irritating to the eyes, nose, throat, and lungs.

In high concentrations and/or at elevated temperatures, vapour or mist is irritating to mucous membranes, may cause headaches and dizziness, may be anesthetic and may cause other central nervous system effects.

Avoid breathing vapours, mists, or fumes.

SKIN CONTACT:
Low order of acute toxicity.

Prolonged or repeated contact may dry and defat the skin, leading to irritation and possibly dermatitis.

EYE CONTACT:
Slightly irritating, but does not injure eye tissue.

INGESTION:
Low order of acute/systemic toxicity.

Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

CHRONIC:

11. TOXICOLOGICAL INFORMATION (Continued)

TOXICITY DATA:

ACUTE:
The acute toxicity evaluation for this product is based on testing results from similar atmospheric petroleum distillates.

CHRONIC:
No chronic data are available at this time.

12. ECOLOGICAL INFORMATION

In the absence of specific environmental data for this product, this assessment is based on information for general hydrocarbon components found in atmospheric distillate solvents. Atmospheric distillate solvents, immediately following a release into the environment, will volatilize into the atmosphere and disperse. They can also leach into the soil and solubilize into water. Based on chemical/physical and biological data from the literature for selected components in this product and biological test results for similar products, harmful effects to terrestrial and aquatic habitats could occur. Based on test results for selected atmospheric distillate solvents, this product would be expected to exhibit low to moderate acute aquatic toxicity. Based on biodegradation test results for selected atmospheric distillate solvents, this product would be expected to biodegrade at a slow to moderate rate.

13. DISPOSAL CONSIDERATIONS

Collect and dispose of waste product at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on the disposal of waste oil.

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS:
Rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to max. 50 C

15. REGULATORY INFORMATION

EC DANGEROUS SUBSTANCES/PREPARATIONS CLASSIFICATION:
Not regulated

15. REGULATORY INFORMATION (Continued)

Refer to your national legislation implementing the EC Directive 91/155/EC

16. OTHER INFORMATION

PRODUCT TYPE / USES:
Roll oil for metal.

SOURCE OF KEY DATA:
The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.