

Material Safety Data Sheet according to EC directive 2001/58/EC

COLD DEGREASER PW-60

1/8

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

Material Name : *Cold Degreaser PW60*

Uses : Industrial Solvent. Cleaner

Product Code :

Manufacturer: / Shell Chemicals Europe B.V.

Supplier:

Telephone 00306945088717

Fax :

Emergency Telephone

Number

:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material Formal Name : Naphtha (petroleum), hydro treated heavy

CAS No. : 64742-48-9

INDEX No. : 649-327-00-6

EINECS No. : 265-150-3

3. HAZARDS IDENTIFICATION

Health Hazards : May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

Harmful: may cause lung damage if swallowed.

Signs and Symptoms : Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

Safety Hazards : Combustible liquid. In use, may form flammable/explosive vapour-air mixture. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

4. FIRST AID MEASURES

General Information : In general no treatment is necessary, however, obtain medical advice.

Inhalation : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

Eye Contact : Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.

Ingestion : If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Advice to Physician : Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards : Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Extinguishing Media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

Unsuitable Extinguishing

Media

: Do not use water in a jet.

Protective Equipment for Firefighters

: Wear full protective clothing and self-contained breathing apparatus.

Additional Advice : Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Protective measures : Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

Clean Up Methods : For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Additional Advice : See Chapter 13 for information on disposal. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

7. HANDLING AND STORAGE

General Precautions : Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Handling : Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid contact with skin, eyes, and clothing. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

Storage : Must be stored in a diked (bunded) area. Bulk storage tanks should be diked (bunded).

Storage Temperature: Ambient.

Product Transfer : Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve.

Recommended Materials : For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.

Unsuitable Materials : Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container Advice : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

In the absence of occupational exposure standards for this product, it is recommended that the following are adopted.

Material Source Type ppm mg/m³ Notation

RCP

Dearom.

Mineral spirits 175 - 220

EU HSPA TWA (8 h) 1,200 mg/m³

Additional Information : Wash hands before eating, drinking, smoking and using the toilet.

Exposure Controls : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

Personal Protective Equipment

: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN141. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Hand Protection : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: Longer term protection: Nitrile rubber gloves
Incidental contact/Splash protection: PVC or neoprene rubber gloves

Eye Protection : Monogoggles (EN166)

Chemical splash goggles (chemical monogoggles).

Protective Clothing : Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

Monitoring Methods : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended air monitoring methods are given below or contact supplier.

Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA:

Manual of analytical Methods

<http://www.cdc.gov/niosh/nmam/nmammenu.html> Occupational

Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha-slc.gov/dts/sltc/methods/toc.html> Health and Safety Executive

(HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hsl.gov.uk/search.htm>

Berufsgenossenschaftliches Institut für Arbeitssicherheit (BIA), Germany <http://www.hvbg.de/d/bia/pub/grl/grle.htm>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/indexnosdoss.html>

Environmental Exposure Controls

: Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colourless. Liquid.

Odour : Hydrocarbon.

pH : Not applicable.

Boiling point : Typical 179 - 213.9 °C / 354 - 417.0 °F

Pour point : < -25 °C / -13 °F

Flash point : Typical 61 - 66 °C / 142 - 151 °F (ASTM D-93 / PMCC)

Explosion / Flammability limits in air: 0.7 - 6 % (V)

Auto-ignition temperature : 235 - 315 °C / 455 - 599 °F (ASTM E-659)

Vapour pressure : Typical 30 - 93 Pa at 0 °C / 32 °F

Specific gravity : 0.78 - 0.81

Density : Typical 0.780 g/cm³ at 15 °C / 59 °F (ASTM D-4052)

Water solubility : Insoluble.

Volatile organic carbon content : 85 % (EC/1999/13)

Evaporation rate (nBuAc=1) : 0.04 (ASTM D 3539, nBuAc=1)

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions of use.

Conditions to Avoid : Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid : Strong oxidising agents.

10 Hazardous Decomposition Products

: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product testing, and/or similar products, and/or components.

Acute Oral Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg , Rat

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 >2000 mg/kg , Rat

Acute Inhalation Toxicity : Low toxicity: LC50 greater than near-saturated vapour concentration. / 4 hours, Rat

Skin Irritation : May cause moderate skin irritation (but insufficient to classify).

Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Eye Irritation : Essentially non-irritating to eyes.

Respiratory Irritation : Not expected to be a respiratory irritant.

Sensitisation : Not expected to be a skin sensitizer.

Repeated Dose Toxicity : Kidney: caused kidney effects in male rats which are not considered relevant to humans

Mutagenicity : Not expected to be mutagenic.

Carcinogenicity : Repeated exposure causes skin tumour promotion in experimental animals.

Reproductive and Developmental Toxicity

Not expected to be a developmental toxicant Not expected to impair fertility.

12. ECOLOGICAL INFORMATION

Acute Toxicity

Fish : Low toxicity: LC/EC/IC50 > 1000 mg/l

Aquatic Invertebrates : Low toxicity: LC/EC/IC50 > 1000 mg/l

Algae : Low toxicity: LC/EC/IC50 > 1000 mg/l

Mobility : Floats on water.

Adsorbs to soil and has low mobility.

Persistence/degradability : Expected to be readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulation : Has the potential to bio accumulate.

13. DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local Legislation : Disposal should be in accordance with applicable regional,national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. TRANSPORT INFORMATION

ADR

This material is not classified as dangerous under ADR regulations.

RID

This material is not classified as dangerous under RID regulations.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Label Name : NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

EC label/EC Number : 265-150-3

EC Classification : Harmful.

EC Annex I Number : 649-327-00-6

EC Symbols : Xn Harmful.

EC Risk Phrases : R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

EC Safety Phrases : S23 Do not breathe vapour.

S24 Avoid contact with skin.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

DSL : Listed.

INV (CN) : Listed.

TSCA : Listed.

EINECS : Listed. 265-150-3

KECI (KR) : Listed. KE-25622

PICCS (PH) : Listed.

National Legislation

OE HPV : Listed.

Other Information : 94/69/EC (21st ATP). The benzene content of this product is less than 0.1%.

Nota P applies. Classification and labelling as carcinogen (R45) is not required.

16. OTHER INFORMATION

Additional Information : This material safety data sheet refers to the regulatory requirements for the EU and does not contain any country specific legislation. The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of R-phrase(s)

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

MSDS Regulation : The content and format of this safety data sheet is in accordance with Commission Directive 2001/58/EC of 27 July 2001, amending for the second time Commission Directive 91/155/EEC.

Uses and Restrictions : Industrial Solvent.

MSDS Distribution: The information in this document should be made available to all who may handle the product

Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product