



SAFETY DATA SHEET

Clairsol 370

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Synonyms, Trade Names Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics
REACH Registration number 01-2119457736-27-0001
EC No. 927-632-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Manufacture of substance Distribution of substance Formulation & (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Use in oil and gas field drilling and production operations Lubricants Use in metal working fluids / Rolling oils Use of release agents or binders Use as a fuel Use as a functional fluid Laboratories Polymer Processing Mining chemicals Road and construction applications Explosive manufacture & use Water treatment applications Rubber production and processing Other consumer uses

Uses advised against This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above

1.3. Details of the supplier of the safety data sheet

Supplier Petrochem Carless Limited
Head Office - Cedar Court
Guildford Road, Fetcham
Leatherhead, Surrey
KT22 9RX
+44(0)1372 360000
+44(0)1372 380400

Contact Person MSDSTeam@PetrochemCarless.com

Manufacturer Petrochem Carless Limited
Head Office - Cedar Court
Guildford Road, Fetcham
Leatherhead, Surrey
KT22 9RX
+44(0)1372 360000
+44(0)1372 380400

1.4. Emergency telephone number

Please contact Harwich Refinery on +44(0) 1255 502372

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	EUH066; Asp. Tox. 1 - H304
Environment	Not classified.

Classification (67/548/EEC)

Xn;R65. R66.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

Prolonged skin contact may cause redness, irritation and dry skin.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Environment

The product is not expected to be hazardous to the environment.

2.2. Label elements

EC No. 927-632-8

Label In Accordance With (EC) No. 1272/2008

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Signal Word	Danger	
Hazard Statements	H304	May be fatal if swallowed and enters airways.
Precautionary Statements	P301+310 P331 P405 P501	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Store locked up. Dispose of contents/container in accordance with local regulations.
Supplemental label information	EUH066	Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

REACH Registration number 01-2119457736-27-0001
EC No. 927-632-8

Composition Comments

This material is listed under CAS No. 64742-47-8 on the following inventories: TSCA, DSL, EINECS, AICS, ECL, PICCS, ASIA-PAC and NZIoC
 UVCB Substance

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures**General information**

Remove victim immediately from source of exposure.
 Place unconscious person on the side in the recovery position and ensure breathing can take place.
 Keep the affected person warm and at rest. Get prompt medical attention.

Inhalation

Move the exposed person to fresh air at once.
 Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position.

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!

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.

4.2. Most important symptoms and effects, both acute and delayed**Inhalation.**

No specific symptoms noted.

Ingestion

Do not ingest. If swallowed then seek immediate medical assistance. Aspiration of product into the lungs can cause fatal chemical pneumonitis

Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

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Eye contact

No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

During fire, toxic gases (CO, CO₂) are formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

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.

Protective equipment for fire-fighters

Wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

Prevent entry into drains.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment.

Absorb in vermiculite, dry sand or earth and place into containers.

Do not contaminate water sources or sewer.

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

Avoid forming spray/aerosol mists.

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Do not eat, drink or smoke when using the product.

Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities

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

Keep in original container.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Toxicological studies of the substances to be registered or similar materials used for read-across purposes have been conducted to assess the hazard properties. There were no effects in these studies even though they were carried out to maximally attainable vapor concentrations, limit doses, or to other limits imposed by safety considerations. As no effects were demonstrated, the data are not appropriate for DNEL derivation. As the substances are demonstrably not hazardous for effects which are quantifiable, human health exposure assessments have not been conducted.

No PNEC available Substance is a hydrocarbon UVCB that does not pose a chronic freshwater aquatic hazard. PNEC deviation is not scientifically justified based on water solubility limitations.

8.2. Exposure controls

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 occupational exposure limit.

Hand protection

If repeated skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

DO NOT SMOKE IN WORK AREA!

Wash hands 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Mild.
Initial boiling point and boiling range	230-300°C 760 mm Hg
Melting point (°C)	<-5°C
Relative density	0.815 @ 15°C
Vapour pressure	0.001 kPa @ 20°C
Viscosity	2.5 cSt @ 40°C

Solubility Value (G/100G H₂O@20°C)

Technically not feasible.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

Flash point	100°C CC (Closed cup).
Auto Ignition Temperature (°C)	>200°C
Flammability Limit - Lower(%)	0.5
Flammability Limit - Upper(%)	7.0

Partition Coefficient (N-Octanol/Water)

Technically not feasible.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

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Explosive properties

Not applicable.

According to Reach Annex VII end point 7.11, the study does not need to be conducted if there are no chemical groups associated with explosive properties present in the molecule. This is the case for this substance.

Oxidising properties

Does not meet the criteria for oxidising.

In accordance with column 2 of REACH Annex VII, the study does not need to be conducted because on the basis of its chemical structure, the substance is incapable of reacting exothermically with combustible materials.

9.2. Other information

Particle Size (Micron)

Not applicable.

In accordance with column 2 of REACH Annex VII, the particle size distribution study (granulometry) does not need to be conducted because the substance is not marketed or used in any solid or granular form.

Mol. Weight

ca. 235.36

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other Health Effects

This substance has no evidence of carcinogenic properties.

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

5000 mg/kg Rat

OECD 401

Conclusive data but not sufficient for classification.

Acute Toxicity (Dermal LD₅₀)

> 2000 mg/kg Rabbit

OECD 402

Conclusive data but not sufficient for classification.

Acute Toxicity (Inhalation LC₅₀)

5000 Rat 4 hours

Units mg/m³ OECD 403

Conclusive data but not sufficient for classification.

Skin Corrosion/Irritation:

Erythema/Eschar score

No erythema (0).

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Oedema score

No oedema (0).

OECD 404

Not irritating.

Human Skin Model Test

Not determined.

Not irritating.

Not irritating.

Serious eye damage/irritation:

Not Irritating. OECD 405

Respiratory or skin sensitisation:

Respiratory sensitisation

Not determined.

There is no evidence that the material can lead to respiratory hypersensitivity.

Skin sensitisation

Guinea pig maximization test (GPMT): Guinea Pig

OECD 406

Not Sensitising.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Bacterial Reverse Mutation Test

Method equivalent or similar to OECD 471

Negative.

This substance has no evidence of mutagenic properties.

Genotoxicity - In Vivo

Chromosome aberration:

Method: OECD 474

Negative.

This substance has no evidence of mutagenic properties.

Carcinogenicity:

Carcinogenicity

Scientifically unjustified.

Further testing is not required under Annex X, column 2, section 8.9.1. Substance is not classified as a mutagen and there is no evidence from the repeat dose studies that substance is able to induce hyperplasia or pre-neoplastic lesions.

Highly unlikely to be carcinogenic and are not classifiable as carcinogens

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Fertility: NOAEL >1000 mg/kg Oral Rat P

Method: OECD 415

This substance has no evidence of toxicity to reproduction.

Reproductive Toxicity - Development

Developmental toxicity: NOAEL >1000 mg/kg Oral

Method OECD 414

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

NOAEL >5000 mg/kg Oral Rat

Method: OECD 408

Inhalation

No specific health warnings noted.

Ingestion

Risk of aspirational pneumonia Do not ingest. If swallowed then seek immediate medical assistance.

Skin contact

May cause defatting of the skin, but is not an irritant. Not a skin sensitiser.

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Eye contact

No specific health warnings noted.

Health Warnings

Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Route of entry

Skin and/or eye contact.

Target Organs

Skin

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute Toxicity - Fish

LC50 96 hours > 1028 mg/l Marinewater fish

OECD 203

Acute Toxicity - Aquatic Invertebrates

> 3000 mg/l Marinewater invertebrates

24 hours Method: ISO 14669 - 1999 LL50

Acute Toxicity - Aquatic Plants

EC50 72 hours > 10000 mg/l Marinewater algae

Method: ISO 10253

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

OECD 209

Chronic Toxicity - Fish Early life Stage

28 days > 1000 mg/l

NOELR

Chronic Toxicity - Aquatic Invertebrates

21 days > 1000 mg/l Daphnia magna

NOELR

Acute Toxicity - Terrestrial

Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

12.2. Persistence and degradability

Phototransformation

Air. DT50 ~ days

Standard tests for atmospheric oxidation half-lives are intended for single substances and are not appropriate for this complex substance.

Calculated using AOPWIN v1.92

This substance does not have the potential to undergo photolysis in water and soil, and this fate process will not contribute to a measurable degradative loss of this substance from the environment.

Stability (Hydrolysis)

Scientifically unjustified.

The chemical constituents that comprise hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics consist entirely of carbon and hydrogen and do not contain hydrolyzable groups. As such, they have a very low potential to hydrolyze. Therefore, this degradative process will not contribute to their removal from the environment.

Biodegradation

Water Degradation (74%) > 28 days

OECD 306: Biodegradability in seawater; closed bottle test.

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation factor

Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

Partition coefficient

Technically not feasible.

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Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

12.4. Mobility in soil

Mobility:

The product has poor water-solubility.

Adsorption/Desorption Coefficient

Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

Henry's Law Constant

Not applicable.

Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.

Surface tension

~ 28 mN/m @ 25°C

Wilhelmy plate method

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

This material must be disposed of via an Authorised Waste/Disposal Company in accordance with Local and or National Waste Disposal Regulations.

Waste Class

This material and container must be disposed of as a HAZARDOUS WASTE.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

Transport Labels

No transport warning sign required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

No information required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

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SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

EU Legislation

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out. This substance does not meet the criteria for human health or environmental classification. In addition, this substance does not meet PBT/vPvB criteria. Therefore no exposure scenarios are required.

SECTION 16: OTHER INFORMATION

Revision Comments

Classification in accordance with REACH registration dossier and HSPA recommendations Amend tox and ecotox data

Issued By PCL Technical Team

Revision Date 31/01/2013

Revision 12

Supersedes date 11/04/2011

SDS No. 20594

Safety Data Sheet Status Approved.

Date 03/07/2002

Risk Phrases In Full

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

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.