

**PROCHEMICAL GROUP s.r.o.**NabrezieSv. Cyrila 47  
Prievidza 97101, SlovakiaReg.No.: 45492409  
VAT No.: SK2023015863**Sales department:**tel.: +421 911 993183  
web: www.prochemical.eu  
mail: sales@prochemical.eu

## SAFETY DATA SHEET

According to Regulation (EC) N° 1907/2006 (REACH) considering addition to Regulation EC N° 453/2010

### Chlorinated paraffins

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/EC REPRESENTATIVE/MANUFACTURER 1.1

##### Product identifiers

IUPAC name:	Chlorinated higher paraffin hydrocarbons
Synonyms:	Chloraffin, unichlor, paroil, carbowax, chlorkozan, paraffin wax, cereclor, Chlorinated paraffin liquid, chlorinated paraffin, Medium-chain chlorinated paraffins
EC number:	287-477-0
EC name:	Alkanes, C14-17, chloro
CAS number:	85535-85-9
CAS name:	chlorinated paraffins
RTECS:	RV0450000
Reference number:	01-2119519269-33-0006

##### 1.2 Identified uses

Chlorinated paraffins, liquid, are used as a component in oiling compositions in leather industry, as plasticizers in polymer composite materials, in production of chlorinated rubber, bituminous coatings and sealant formulations, as flame retardant in production of plastics and textiles.

**Additional information:** Full text of PROC, ERC; PC and SU see in the ES in Annexes.

##### 1.3 Details of the manufacturer/EC representative:

Manufacturer:	JSC «Kaustik» Volgograd
Only representative	<b>PROCHEMICAL GROUP s.r.o.</b> NabrezieSv. Cyrila 47 Prievidza 97101, Slovakia  <b>Sales department:</b> tel.: +421 911 993183 web: www.prochemical.eu mail: sales@prochemical.eu

#### SECTION 2: HAZARDS IDENTIFICATION 2.1 Classification and labelling according to CLP

The substance is moderately hazardous upon human organism.

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Chlorinated paraffins are classified per Regulation (EC) No 1272/2008 (CLP) as follows:

for physicochemical properties:	No classification
for health hazards:	Effect on or via lactation Hazard statement: H362: May cause harm to breast-fed children
for environmental hazards:	Aquatic Chronic 1 Hazard statement: H410: Very toxic to aquatic life with long lasting effects

for additional hazard classes:

Additional hazard classes:	Aquatic Acute 1
Additional hazard statements:	H400: Very toxic to aquatic life

**Labelling**

Signal Word: Warning Hazard pictogram:

**GHS09:** environment

Hazard statements:

**H362:** May cause harm to breast-fed children**H410:** Very toxic to aquatic life with long lasting effects.**2.2. Classification according to DSD / DPD**

Chlorinated paraffins are classified in Annex V of Directive 67/548/EEC (DSD) (Index No 602-095-00-X) as follows:

**Classification**

for health effects:	<b>R66</b> Repeated exposure may cause skin dryness or cracking <b>R64</b> May cause harm to breast-fed babies.
for the environment:	<b>N; R50/53</b> Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.3 Other hazards****2.3.1. Summary and overall Conclusions on PBT or vPvB Properties** Chlorinated

paraffins are not considered to be a PBT or vPvB substance.

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P201:	Obtain special instructions before use.
P260:	Do not breathe dust/fume/gas/mist/vapours/spray.
P263:	Avoid contact during pregnancy/while nursing.
P264:	Wash... thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P308+P313:	If exposed or concerned: Get medical advice/attention.
P391:	Collect spillage.
P501:	Dispose of contents/container to... (hazardous or special waste collection point)

Additional labelling requirements (CLP supplemental hazardstatement): EUH066: Repeated exposure may cause skin dryness or cracking.

**SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS**

Components:	CASNo	ECnumber (EINECS,EILINCS)	Mass fraction,%
Chlorinatedparaffins	85535-85-9	287-477-0	100

**SECTION 4: FIRST AID MEASURES 4.1 Description of first aid measures In case of intoxication by inhalation**

- Remove patient from exposure, keep warm and at rest.

In case of eye contact

- Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.

- Obtain medical attention.

In case of skin contact

- Remove contaminated clothing. Wash skin with soap and water.

If swallowed

- Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

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**4.2 Most important symptoms and effects, both acute and delayed In case of skin contact:**

Week irritation. Contact with the hot product may cause thermal burn.

In case of eye contact:

Lacrimation.

In case of intoxication by inhalation (respiration):

If high concentrations of aerosol inhaled – scratch in the throat, cough, rhinorrhea.

In case of per-oral intoxication (by ingestion):

Sickness, cough, rhinorrhea.

**4.3 Further Medical Treatment**

- Unlikely to be required but if necessary treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media Suitable extinguishing media:**

- Normal extinguishing media.

Unsuitable extinguishing media:

- no data available.

**5.2. Specific hazards arising from the chemical**

- Non-flammable. May decompose with liberation of hydrogen chloride if heated above 200 °C.

**5.3. Advice for fire-fighters and Fire Fighting Protective Equipment:**

- A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedure Advice for nonemergency personnel:**

- Spillages may be slippery.

Advice for emergency responders:

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- Evacuate personnel to safe areas.
- Prevent further leakages and spillages, if it is safe to do.
- Avoid contact with incompatible substances.
- Adsorb spillages onto sand, earth or any other suitable adsorbent material.
- Ventilate the area.
- Wear suitable protective clothing.

**6.2. Environmental precautions**

- Avoid release to the environment.
- Do not flush into surface water or sanitary sewer system.
- Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**6.3. Methods and materials for containment and cleaning up**

- Collect and shovel into suitable containers for disposal.
- Keep in properly labelled containers.

**6.4 Treat recovered material as described in the section 13 - "Disposal considerations".**

**SECTION 7: HANDLING AND STORAGE 7.1. Precautions for safe handling**

- Avoid contact with eyes.
- Avoid prolonged skin contact.
- Provide adequate ventilation where operational procedures demand it.
- Do not allow to enter drains, sewers or watercourses.

**7.2. Conditions for safe storage, including incompatibilities**

- Keep only in original container at temperatures not exceeding 40 °C.
- Keep container dry.
- Keep away from direct sunlight.

Substances incompatible at storage:

- Oxidizers, acids, alkalis. Packaging material Suitable material:

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- Storage vessels should be made of lined mild, polyethylene containers.

Unsuitable material: Rubber.

**7.3. Specific use(s)**

- For further information, please contact: Supplier

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION 8.1 Control parameters**

8.1.1. Derived No Effect Level / Derived minimal effect level DNEL

DNEL long term for inhalation systemic effects, Workers – 1.6 mg/m<sup>3</sup>

DNEL long term for dermal systemic effects, Workers – 47.9 mg/kg bw/day  
DNEL long term for inhalation systemic effects, general population – 2.0 mg/m<sup>3</sup>

DNEL long term for dermal systemic effects, general population – 28.75 mg/kg bw/day  
DNEL long term for oral systemic effects, general population – 0.58 mg/kg bw/day

8.1.2. Predicted No Effect Concentration PNEC

PNEC aqua (freshwater) – 1 µg/L  
PNEC aqua (marine water) – 0.2 µg/L

PNEC sediment (freshwater) – 13 mg/kg sediment dw

PNEC sediment (marine water) – 2.6 mg/kg sediment dw  
PNEC soil – 11.9 mg/kg soil dw

PNEC sewage treatment plant – 80 mg/L  
PNEC oral – 10 mg/kg food

**8.2. Exposure controls**

8.2.1. Appropriate engineering controls

- Ensure adequate ventilation.

- Apply technical measures to comply with the occupational exposure limits.

8.2.2. Individual protection measures Eye protection:

- Good working practice suggests goggles should be worn.

Skin and body protection:

- If prolonged or excessive skin contact is likely: Wear suitable protective clothing and gloves.

Hands protection:

- Good working practice suggests gloves should be worn.

Respiratory protection:

- If splashing or mist is likely to occur: face protection.

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Hygiene measures:

- Wash hands thoroughly before meals.
- Handle in accordance with good industrial hygiene and safety practice.

**8.2.3. Environmental exposure controls**

- Dispose of rinse water in accordance with local and national regulations.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties Characteristics**

Molecular formula:	$C_nH_{2n+2-x}Cl_x$ , where $n = 14-17$ , $x = 1-7$
Molecular weight range:	370 – 481.5
Physical state at 20°C and 101.3 kPa	C14-17 chlorinated paraffins are liquids of color-less to light-yellow color
Odour	Mildly unpleasant odour
Melting point/freezing point, °C	-15 °C - 0 °C
Boiling point, °C	200-270
Relative density g/cm <sup>3</sup> (at 20 °C)	1.095-1.26
Water solubility mg/l (at 20 °C)	0,027
Solvent solubility	Soluble in organic solvents
Vapour pressure	$1.3 \times 10^{-4}$ – $2.7 \times 10^{-4}$ Pa at 20°C.
Vapour density	No data
Partition coefficient: n-octanol/water (log value)	Log Kow (Pow): 7 at 20 °C
Ignition temperature	275 °C
Autoignition temperature	374 °C
Viscosity	90-12000 mm <sup>2</sup> /s at 20°C and 25-1200 mm <sup>2</sup> /s at 40°C
Flash point	210 °C at 101.3 kPa
Explosive properties	Fire- and explosion-proof

**9.2 Other information**

Avoid long-term exposure of light and heating over 70 °C, as it may cause dechlorination. Avoid accidental contact with strong oxidizing agents. **SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

- Can react with alkali metals and alkaline earth metals which have a strong affinity for chlorine.
- Can react with iron, zinc and aluminium at high temperatures leading to decomposition.

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- Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

- See item 10.6

**10.4. Conditions to avoid:**

- Strong oxidizing agents.
- Long-term exposure of light, heat and hot surfaces.
- Mid Chain Chlorinated Paraffins tend to soften or swell most rubbers.

**10.5. Incompatible materials**

- Oxidizing agents, acids, alkalies;

**10.6. Hazardous Decomposition Product(s)**

- Prolonged heating at temperatures in excess of 70 °C or heating above 200 °C for short periods of time will result in decomposition and liberation of hydrogen chloride.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute toxicity indexes:</b>	DL50 = 21800 mg/kg, i.g., mice DL50 = 26100 mg/kg, i.g., rats DL50 = 40000 mg/kg, for mammals CL50 = not reached
<b>In case of skin contact:</b>	Causes irritation
<b>In case of eye contact:</b>	Causes irritation
<b>In case of inhalation:</b>	The vapors of the product (aerosol) irritate strongly upper respiratory tract.
<b>Sensitizing effect:</b>	Not considered to be a skin sensitizer.
<b>Carcinogenicity</b>	Not classified
<b>Mutagenicity</b>	Not classified
<b>Toxicity for reproduction</b>	Not classified
<b>Specific target organ toxicity - single exposure</b>	no data available
<b>Specific target organ toxicity - repeated exposure</b>	not applicable
<b>Extent of hazardous effect on human organism:</b>	Liquid paraffins have moderately toxic effect upon human organism. Low-toxic at ingestion. Acute intoxication is unlikely, persistent intoxication is



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	possible. Inhalation of volatile products, formed as a result of heating chlorinated paraffins up to 100-150 °C, causes fatty liver infiltration and dystrophic spleen modification of mice. Mouse tests didn't detect cumulativeness
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**SECTION 12: ECOLOGICAL INFORMATION 12.1 Ecotoxicity**

Acute toxicity for fish:	CL50 > 300 mg/l, Salmogairdnen, 96 hours
Acute toxicity for invertebrates:	EC > 300 mg/l, Daphnia magna, 24 hours
Revealed effects on simulative ecosystem:	CL50 = 10000mg/l, Nitocraspinipes, 96 hours.

12.2 Migration, environmental conversion:	The product is not converted in the environment.
12.3 Bioaccumulative potential	Not relevant
12.4 Mobility in soil	No data available
12.5 PBT and vPvB assessment	Chlorinated paraffins do not fulfill the PBT or the vPvB criteria.
12.6 Other adverse effects	No data available

**SECTION 13: DISPOSAL CONSIDERATIONS 13.1. Wastetreatment methods**

- Wastes are collected and sent for disposal to places agreed with local, federal and national legislation. - Do not allow to enter drains or environment.

**13.2. Contaminated packaging**

- Recovering is more likely than disposal or incineration, if possible.
- Wash container with hot water mixed with petroleum solvent and steam until complete removal of petrochemicals.
- Dispose it as unused product.
- According to local and national regulations.

**SECTION 14: TRANSPORT INFORMATION****-ICAO/IATA**

UN number	UN 3082
Class	9
Packing group	III
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorinated paraffin, C14-17)

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UN number	UN 3082
Class	9
Packing group IMDG	III
Marine pollutant	Yes (P)
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorinated paraffin, C14-17)

**-ADR/RID**

UN number	UN 3082
Class	9
Packing group	III
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorinated paraffin, C14-17)

**- ADN**

UN number	UN 3082
Class	9
Packing group	III
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorinated paraffin, C14-17)

**SECTION 15: REGULATORY INFORMATION 15.1. Applicable Laws or Regulations**

- 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), as amended
- Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended
- 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, as amended
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste

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**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out for this substance.

**SECTION 16: OTHER INFORMATION 16.1. Training advice**

Read the safety data sheet before using the product.

**16.2 Recommended restrictions on use**

No restrictions at intended application.

**16.3. Advice on using information stated in the safety data sheet**

This SDS is only intended for the indicated country to which it is applicable. The European SDS format compliant with the applicable European legislation is not intended for use nor distribution in countries outside the European Union with the exception of Norway and Switzerland. Safety datasheets applicable in other countries/regions are available upon request.

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment. Responsible executives, who receive this data sheet, must guarantee that every person, potential to use, treat, dispose or contact with the product in some other way, have read and understood the information described here properly. Note that appearance and content of safety data sheets for the same product may vary in different countries to comply with requirements of different regulations.

**16.4. Reference literature**

1. Chemical safety report – Medium-chain chlorinated paraffins/alkanes, C14-C17, chloro JSC «KAUSTIK» (dt. 2010).
2. Regulation (EC) No 1907/2006 of the European parliament and of the council of 18.12.2006.
2. Directive 67/548/EEC – Official Journal of the European Union, 1967.
3. Regulation (EC) No 1272/2008 of the European parliament and of the council of 16.12.2008

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

