

Last revision date: 07/07/2025

MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (Reach), Annex II

1. Product and company identification

1.1 Product name :

ORTHOPHAR DETOCLEANER

1.2 Code:

B-283

1.3 Intended use:

Concentrated cleaning agent/detergent for consumer use compliant with the following regulations:

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents en Regulation (EG) nr. 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 en 1999/45/EC and amending Regulation (EC) No. 1907/2006 (Text relevant for the EEA)

1.4 Supplier:

ORTHOPHAR BV

Kreupelstraat 50

8510 Kortrijk

Belgium

E-mail: info@orthophar.be

1.5 Emergency telephone number:

Poison Centre: 070 245 245

2. Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008(CLP)

Flammable liquid and vapour, H226

Skin Irrit.2, H315

Skin sensitisier, H317

Eye damage, H318

See Section 16 for the full text of the H statements declared above

See Section 11 for more information on health effects and symptoms.

2.2 Label elements

The product is classified and labelled according to Regulation (EC) No. 1272/2008 (CLP)

2.2.1 Hazard pictograms, signal words and hazard statements

Hazard pictograms



GHS02



GHS05

Signal word	Danger
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Hazard statements

H226	Flammable liquid and vapour
H315	Skin irritant
H317	Skin sensitisier
H318	Eye damage

2.2.2 Precautionary statements

General

For external use only. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label on hand.

Prevention

Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from food, drink and animal feed. Do not eat, drink or smoke while using the product.

Response

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

IF ON SKIN: wash with plenty of soap and water. If skin irritation occurs: get medical advice. Remove contaminated clothing.

Storage

Store in a well-ventilated place. Keep cool.

2.3 Other hazards

2.2.1 PBT and zPzB assessment

Ethanol: does not meet PBT and vPvB criteria under Annex XIII of Regulation (EC) No. 1907/2006 (REACH)

Chlorocresol: chemical safety assessment not mandatory/not conducted, hence no PBT/zPzB assessment performed.

2.2.1 Other hazards

Harmful for aquatic life with long-lasting effects.

Contains chlorocresol and limonene, may cause allergic reactions.

3. Composition/information on ingredients

Composition Mixture

Product/ingredient Name	Identifiers	%	Regulation (EC) No. 1272/2008 (CLP)	Type
Chlorocresol	REACH # 01-2119938953-25 EINECS: 200-431-6 CAS: 59-50-7 EG N°: 604-014-00-3	2<x<5	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
Pine Oil	EINECS: 701-188-3 CAS: 800-41-7	1<x<5	Eye Irrit. 2, H319 Skin Irrit. 2, H315	[1]
Potassium Castorate	EINECS: 232-388-4 CAS: 8013-05-6	3 <x<5	Eye Irrit. 2, H319 Skin Irrit. 2, H315	[1]
Ethanol	EINECS: 200-578-6 CAS: 64-17-5 EG N°: 603-002-00-5	10<x<15	Flam. Liq 2, H225	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Types:

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are provided in section 8.

4. First aid measures

4.1 Description of first aid measures

Eye contact	If splashed in eyes, immediately rinse eyes with plenty of water, remove any contact lenses and continue rinsing eyes for at least 15 minutes. Consult a physician or get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Discontinue use (as an antiseptic) if rash or irritation occurs.
Inhalation	Remove to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
Ingestion	Wash out mouth with water. If swallowed, get medical help or contact a poison control center right away. Do not induce vomiting.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Causes serious eye irritation, causes skin irritation, may cause an allergic skin reaction, irritation of the mouth, throat, and stomach if swallowed

Delayed symptoms and health effects

Pain or irritation, redness and tearing due to eye contact, redness of the skin, itching, blistering may occur, nausea, headache. In general for phenols the following applies: contact with skin and mucous membranes may cause irritation up to corrosion.

4.3 Indication of any immediate medical attention and special treatment

Notes to physician

Treat symptomatically

Specific treatments

No specific treatment

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

Hazardous thermal decomposition products

Decomposition products may include the following materials: Carbon dioxide, carbon monoxide

Additional hazards

In case of fire or heating, pressure will increase and the container may burst. Beware of flammable material. Vapours are heavier than air and may spread along floors. Chlorocresol and ethanol can form explosive mixtures with air when strongly heated.

5.3 Advice for firefighters

Special protective actions

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to cool exposed containers. Prevent contaminated firefighting water from entering sewers.

Special protective equipment for the firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

6 Accidental release measures

6.1 Personal precautions, protective and emergency procedures

6.1.1 For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel away. Avoid breathing vapor or mist. Provide adequate ventilation.

Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2 For emergency responders

If special clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

6.2 Environmental precautions

Avoid disposal of spilt material and runoff and the contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, air)

6.3 Methods and material for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Prevent entry into waterways, sewers, basements or confined areas.

Large spill Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent large spills from entering sewers or waterways. Contain and collect spillage with non-combustible, absorbent material.

6.4 Reference to other sections

See 1 for emergency contact information

See 8 for information on appropriate personal protective equipment

See 13 for additional waste treatment information

7 Handling and storage

The information in this section contains generic advice and guidance. The list of identified uses in 1 should be consulted for any available use-specific information provided in the exposure scenario(s)

7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with the eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or approved alternative made for compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protecting

equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Household cleaner, for use only on surfaces.

Consumer use: private households (general public). When used on surfaces that come into contact with food, rinse thoroughly with plenty of water. This product should only be used for the applications indicated on the label. Observe usage instructions for dosing and handling. Avoid contact of undiluted product with skin, eyes and clothing.

8 Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of identified uses in 1 should be consulted for any available use-specific information provided in the exposure scenario(s)

8.1 Control parameters

8.1.1 Occupational exposure limits

Substance: ethanol

Country	8-hour (TWA)		Short term (15 min)		Indication
	mg/m3	ppm	mg/m3	ppm	
Belgium	1907	1000			
Germany	960	500			
France	1900	1000	9500	5000	
Ireland	1900	1000			
Italy	1900	1000			
Netherlands	260		1900		skin
Austria	1900	1000	3800	1900	

Switzerland	960	500	1920	1000
UK	1920	1000		

DNEL /DMEL

Worker short term exposure

DNEL worker (acute, inhalation - systemic)	Not required
DNEL worker (acute, inhalation - local)	1900 mg/m3
DNEL worker(acute, dermal - systemic)	Not required
DNEL worker (acute, dermal - local)	Not required

Worker long term exposure

DNEL worker (long-term, inhalation - systemic)	950 mg/m3
DNEL worker (long-term, inhalation - local)	Not required
DNEL worker (long-term, dermal - systemic)	343 mg/kg bw/d
DNEL worker (long-term, dermal - local)	Not required

Consumer short term exposure

DNEL general population (acute, inhalation - systemic)	Not required
DNEL general population (acute, inhalation - local)	950 mg/m3
DNEL general population (acute, dermal - systemic)	Not required
DNEL general population (acute, dermal - local)	Not required

Consumenten long-term exposure

DNEL general population (long-term, inhalation - systemic)	114 mg/m3
DNEL general population (long-term, inhalation- local)	Not required
DNEL general population (long-term, oral - local)	87 mg/m3
DNEL general population (long-term, dermal - systemic)	206 mg/kg bw/d
DNEL general population (long-term, dermal - local)	Not required

PNEC

Fresh water	PNEC aquatic (freshwater)	0,96 mg/L
Sea water	PNEC aquatic (sea water)	0,79 mg/L
Accidental release	PNEC aquatic (accidental release)	2,75 mg/L
Wastewater treatment	PNEC micro-organisms	580 mg/L

Sediment

Fresh water sediment	PNEC sediment	3,6 mg/kg sediment dw
Sea water sedimentatie	PNEC sea water sediment	2,9 mg/kg sediment dw

On land

soil	PNEC soil	0,63 mg/kg soil dw
Air		
biotic	PNEC air (biotic)	Not required
abiotic	PNEC air (abiotic)	Not required
Secondary poisoning		
Food chain	PNEC oral	0,72 mg/kg food

No exposure limit value known for the other ingredients.

8.1.1 Recommended monitoring procedures

If this product contains ingredients with exposure limits, monitoring of the workplace may be required to determine the effectiveness of ventilation or the necessity for respiratory protective equipment. Reference should be made to European Standards such as:

EN 689: Workplace atmospheres – guidance for assessing exposure by inhalation to chemical agents for comparison with limit values and measurement strategy

EN 14042: Workplace atmospheres – general requirements for the performance of procedures for the measurement of chemical agents

EN 482: Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents

National regulations regarding methods for determining hazardous substances should also be observed.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work should not be allowed out the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any gloves material may be different for different gloves manufacturers. In case of mixtures, considering of several substances, the protection time of the gloves cannot be accurately estimated. 4 – 8 hours (breaking through time): nitrile rubber.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall

Other skin protection

Appropriate footwear and any additional skin protection should be selected based on the task being performed and the risks involved should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: None assigned.

Thermic exposures

See section 5

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emission to acceptable levels.

9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Appearance	Clear liquid
Color	Brown
Odor	Specific
pH	9.0 – 12.0 (non diluted)
Density	0,9500 – 1.0500g/ml
Flashpoint	40°C
Solubility (water)	Miscible

9.2 Other information No additional information

10. Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients. However, no hazardous reactions are expected if handling and storage instructions are followed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Ethanol: exothermic reactions, sometimes violent with alkali and alkaline earth metals, strong acids and oxidizing agents possible

Chorocresol: possibly violent reaction with oxidants, acid anhydrides, acid halides, bases.

No further data available on the mixture as a whole.

10.4 Conditions to avoid

Do not mix with other chemicals. Avoid temperatures above 30°C.

10.5 Incompatible materials

As above in section 10.3 and chlorocresol may also react with copper, copper alloys, brass and mild steel. Avoid acid-sensitive surfaces.

10.6 Hazardous decomposition products

See section 5 in case of fire.

11. Toxicological information

No toxicological testing has been performed on this mixture as such.

11.1 LC50 and LD50 (oral) values for individual components

Ingredient	LC50
Chlorocresol	1.2 mg/l/48h fish (L. Indus)
Isopropanol	16970 mg/l/4h rat
Pine oil	Not available
Ingredient	LD50 oral
Chlorocresol	1830 mg/Kg rat
Isopropanol	4396 mg/Kg rat
Pine oil	3200 mg/Kg rat

11.2 Effects of acute exposure

Acute toxicity:

Ethanol: inhalation of vapours may cause mild mucous membrane irritation and may be absorbed. Eye contact may cause mild irritation. Ingestion of large quantities may cause nausea, dizziness, vomiting, euphoria, intoxication, narcosis and respiratory paralysis.

Chlorocresol: inhalation may cause pulmonary oedema and mucous membrane irritation.

Irritation: May cause skin irritation and/or allergic skin reaction.

Corrosivity: chlorocresol may cause skin irritation to corrosion upon contact with skin and mucous membranes.

Sensitisation: Possible allergic reaction to chlorocresol or limonene (present in pine oil)

Repeated dose toxicity: Ethanol: prenatal exposure associated with fetal alcohol syndrome, but not expected to be a concern below occupational exposure limits.

Carcinogenicity: ethanol is classified as carcinogenic by various authorities

Mutagenicity: No chronic health effects expected

Reproductive toxicity: No chronic health effects expected

12. Ecological information

Certain components of this product have been identified as having potential concerns.

12.1 Eco-toxicity

Eco-toxicity – freshwater algae

Chlorocresol 59-50-7 IC50 (Desmodesmus subspicatus): 4,2mg/L; 72u (IUCLID)

Ethanol 64-17-5 EC50 (chlorella pyrenoidosa): > 100 mg/L

Eco-toxicity – freshwater fish

Chlorocresol 59-50-7 72u LC50 Fathead Minnow: 9.21mg/L; 48u LC50 Fathead Minnow: 11.4mg/L; 24u LC50 Fathead Minnow: 13.3ml/L

Ethanol 64-17-5 48u LC50 Leuciscus idus: 8140 mg/L

Eco-toxicity – Water flea

Chlorocresol 59-50-7 24u EC50 Daphnia magna: 5.6ml/L (static) (IUCLID)

Ethanol 64-17-5 48u EC50 Daphnia magna : 9268 – 14221 mg/L
Pine oil 800-41-7 48u EC50 Daphnia magna : 17 – 28mg/L (flow through)

Eco-toxicity – Bacteria

Chlorocresol 59-50-7 EC50 Levend slib: 60 mg/L; 3u (IUCLID)

Ethanol 64-17-5 EG5 Ps. patida: 6500 mg/L

12.2 Persistence and degradability

Ethanol: biodegradation >70% (OECD 301D)

Chlorocresol: biodegradation 84%; 28 days (OECD 301D)

Potassium castorate: readily biodegradable (external SDS)

12.3 Other environmental data

Ethanol: BOD5: 0,93 – 1,67 g/g ; CSB: 1,99 – 2,11 g/g; THOD: 2,10 g/g ; BOD: 63% of ThOD; CSB: 90% of ThOD.

Chlorocresol: theoretical oxygen demand: 1.852 mg/g ; ratio COD/ThBOD: 100% ; log Pow: 3,02

Discharge into the environment must be avoided.

13. Disposal considerations

Product:

No uniform EU regulation exists for disposal of chemicals and waste. Chemical waste is usually considered special waste. Disposal must comply with local regulations. Consult the relevant authority in your region

Packaging:

Dispose of according to local regulations. Unless otherwise legally stipulated, contaminated empty containers may be rinsed with water, which can be disposed of via wastewater. Containers are then treated as domestic waste.

14. Transport information

Mixture as a whole:**Road / rail transport ADR/RID**

and RMTD/R Not classified as dangerous goods under international transport regulations.

Marine transport IMDG/GGV

Not regulated in appropriate packaging.

Air transport IATA/IACO Not regulated in appropriate packaging.

Transport in bulk according to Annex III MARPOL 73/78: not relevant

Individual substances:

1. Ethanol:

- UN N° 1170
- Transport hazard class: 3
- Packaging group: II
- Marine pollutant: /
- Special precautions for uses: follow national regulations for transportation by car; no additional measures required for internal or external transport..

2. Chlorocresol:

- UN N° 3437
- Transport hazard: 6.1
- Packaging group: II
- Environmentally hazardous: yes
- Special precautions for uses: follow national regulations for transportation by car; no additional measures required for internal or external transport..

15. Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

1. Annex XIV – list of substances subject to authorization
Substances of very high concern
None of the components are listed
2. Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Not applicable

EU Regulation (EC) 1005/2009 on substances that deplete the ozone layer

Not regulated

EU Regulation (EC) 850/2004 on persistent organic pollutants

Not regulated

EU Regulation (EC) 689/2008 on the export and import of dangerous chemicals

Not applicable to this mixture

Additional national regulations may apply.

15.2 Chemical Safety Assessment

No chemical safety assessment has been performed for this mixture under REACH.

16. Other information

16.1 Information regarding revision

First issue date: 20 January 2015

Revision: 7 July 2025 – updated per Regulation (EC) N) 453/2010

16.2 Abbreviations and acronyms

CAS	Chemical Abstract Service (Division der American Chemical Society)
ATE	Acute Toxicity Estimate
CLP	Classification, labelling and Packaging Regulation
H	Hazard
P	Precaution
LC50	Lethal Concentration, 50%

LD50	Lethal Dose, 50%
EC50	Half maximal Effective Concentration
DNEL	Derived No Effect Concentration
PNEC	Predicted No Effect Concentration
RRN	REACH Registration Number
OECD	Organisatie for economic Co-operation and Development
GHS/CLP Packaging	Globally Harmonised System / Classification, Labelling and Packaging
EINECS	European Inventory of Existing Commercial Chemical Substances
PPM	parts per million
DSD/DPD	Dangerous Substances Directive / Dangerous Preparations Directive

Procedure used to derive the classifications according to Regulation (EC) No. 1272/2008 (CLP/REACH)

Classification	Justification
Flam. Liq. 3, H226	Calculation
Eye Dam. 1, H318	Calculation
Skin Sens. 1, H317	Calculation
Skin Irrit. 2, H315	Calculation
Aquatic chronic 3	Extrapolation principle

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H317	May cause an allergic reaction
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life

16.3 Other information

The information is based on current available data mainly from individual components. It describes the product with regard to relevant safety precautions. It does not guarantee the product's properties.

Disclaimer:

This product should only be used as described on the label and only for its intended purpose. The information contained herein is accurate to the best knowledge and belief of ORTHOPHAR BV. However, it remains the responsibility of the customer to ensure that ORTHOPHAR BV products are suitable for the intended purpose. If products not manufactured or supplied by ORTHOPHAR BV are used in conjunction with, or instead of, ORTHOPHAR BV products, the customer must ensure that they obtain all technical data and other information from the manufacturer or supplier of those products. ORTHOPHAR BV accepts no responsibility (except as provided by law) arising from the use of the information provided, application, adaptation, or processing of the products described herein, the use of other products in place of ORTHOPHAR BV products, or the use of ORTHOPHAR BV products together with such other products. ORTHOPHAR BV and its employees cannot be held liable for the accuracy or completeness of the information in this document. The ultimate determination of suitability of this product lies solely with the user. All ingredients may present unknown hazards and should be used with caution. Although some hazards are described herein, we cannot guarantee these are the only hazards.