SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:	**Iodoform**
Chemical name:	iodoform
WE number:	200-874-5
CAS number:	75-47-8
Registration number:	-

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

Relevant identified uses:	chemical reagent. Professional use.
Uses advised against:	no uses advised against have been identified.

1.3 Details of the supplier of the safety data sheet

Importer:	**PPH CERKAMED Wojciech Pawłowski**
Address:	Kwiatkowskiego 1, 37-450 Stalowa Wola, Poland
Telephone:	+48 15 842 35 85

E-mail address for a competent person responsible for SDS: anna.szwedo@cerkamed.pl

1.4 Emergency telephone number

112 (general emergency telephone number)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4 H302, **Acute Tox. 4** H312, **Skin Irrit. 2** H315, **Eye Irrit. 2** H319, **Acute Tox. 4** H332, **STOT SE 3** H335

Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

2.2 Label elements

Hazard pictograms and signal words



WARNING

Hazard statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P501	Dispose of contents/container to an approved waste disposal facility.

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2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
The substance is not identified as having endocrine disrupting properties.

Section 3: Composition/information on ingredients

3.1 Substances

CAS number: 75-47-8 WE number: 200-874-5 Index number: — REACH number: —	iodoform Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Acute Tox. 4 H332, STOT SE 3 H335	100 %

Full text of each H phrase is given in section 16.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothing and wash before reuse. Wash the contaminated skin thoroughly with plenty of water. Consult a doctor if disturbing symptoms occur.

Eye contact: protect non-irritated eye, remove contact lenses. Wash contaminated eyes thoroughly with water for at least 10 minutes. Avoid strong water jet - risk of corneal damage. Consult an ophthalmologist if disturbing symptoms occur.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor, show the container or label.

Inhalation: remove the victim to fresh air. Keep the victim warm and calm. Consult a doctor if disturbing symptoms occur.

4.2 Most import ant symptoms and effects, both acute and delayed

Skin contact: redness, dryness, irritation, harmful in contact with skin.

Eye contact: redness, tearing, irritation, pain.

Ingestion: possible abdominal pain, nausea, vomiting, diarrhea, harmful if swallowed.

Inhalation: respiratory irritation, cough, harmful if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder, CO_2, extinguishing foam, water spray.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. carbon oxides, hydrogen iodide and other hazardous unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not allow the extinguishing agents to enter sewage, surface and ground waters. Cool the endangered containers with water spray from a safe distance. Collect used extinguishing media.

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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large spills, isolate the exposed area. Ensure that only the trained personnel removes the effects of the accident. Use personal protective measures. Avoid skin and eyes contamination. Avoid formation and inhalation of dusts. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

A damaged container should be placed in a replacement container. Collect the released product mechanically, avoiding dusting, use dry cleaning methods such as vacuuming and place in properly labeled containers. Treat the collected material as waste. Clean the contaminated place with a large amount of water. Ventilate the contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands. Provide adequate general ventilation and / or local in the workplace. Avoid skin and eyes contamination. Avoid formation and inhalation of dusts. Use personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original, tightly closed containers in a cool, dry and well-ventilated area. Keep away from, foodstuffs, animal feed and from incompatible materials (see section 10).

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Product does not contain components with occupational exposure limit values established on the European Union level.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Please check also any national occupational exposure limit values in your country.

8.2 Exposure controls

Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace. Avoid skin and eyes contamination. Avoid inhalation of dusts. Use personal protective equipment.

Individual protection measures, such as personal protective equipment

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product.

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The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand and body protection

Use protective gloves resistant to chemicals in accordance with EN 374. The material for gloves should be selected individually at the workplace. In case of short term contact use protective gloves with effectivness level 2 or higher (permeation time > 30 minutes). In case of long term contact use protective gloves with effectivness level 6 (permeation time > 480 minutes). Use protective clothing.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Eyes protection

Use tightly fitting safety glasses in accordance with EN 166.

Respiratory protection

Not required with adequate ventilation. In case of insufficient ventilation, a P3 filter is recommended.

Thermal hazard

Not applicable.

Environmental exposure controls

Do not allow large quantities of the product to contaminate ground water, drains, sewages or soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour:	not determined
Odour:	unpleasant
Melting point/freezing point:	115 °C
Boiling point or initial boiling point and boiling range:	not applicable
Flammability:	the product is not classified in terms of flammability
Lower and upper explosion limit:	not determined
Flash point:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not applicable
Solubility:	not determined
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not applicable
Density and/or relative density:	not determined
Relative vapour density:	not applicable
Particle characteristics:	not determined

9.2 Other information

There are no additional test results.

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Section 10: Stability and reactivity

10.1 Reactivity

The substance is feebly reactive. It does not go under hazardous polymerization. See also subsection 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Avoid direct exposure to sunlight, high temperatures, sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents, strong bases, magnesium.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD_{50} (oral, rat)	355 mg/kg
LD_{50} (skin, rat)	1184 mg/kg
LC_{50} (inhalation, rat)	165 ppm/ 7 h

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Exposure route: eye exposure, skin exposure, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2.

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

See subsection 4.2.

11.2 Information on other hazards

Endocrine disrupting properties

The substance is not identified as having endocrine disrupting properties.

Other information

No data.

Section 12: Ecological information

12.1 Toxicity

Toxicity of fish: LC_{50} 2,92 mg/l/ 96 h

The product is not classified as hazardous to the environment.

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soil

Mobility of the substance depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB.

12.6 Endocrine disrupting properties

The substance is not identified as having endocrine disrupting properties.

12.7 Other adverse effects

The substance has no influence on destruction of the ozone layer. Other harmful effects of the substance on the environment (e.g.: the impact on the global warming) should be considered.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the substance: disposal in accordance with the local legislation. Store residues in original containers. Hand over the waste to an authorized disposal company. Waste code should be given in the place of waste formation.

Disposal methods for used packing: reuse/recycle/liquidate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled. Waste code should be given in the place of waste formation.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number or ID number

Not applicable. The product is not classified as dangerous for transport.

14.2 UN proper shipping name

Not applicable.

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14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization 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 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

European Parliament and of Council Directive 2008/98/EC of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

IMDG Code International Maritime Dangerous Goods Code.

IATA Dangerous Goods Regulations.

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.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2 Chemical safety assessment

A chemical safety assessment for the substance has not been carried out.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.

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[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	Very Persistent, very Bioaccumulative substance.
Skin Irrit. 2	Skin irritation cat. 2
Eye Irrit. 2	Eye irritation cat. 2
STOT SE 3	Specific target organ toxicity — single exposure cat. 3
Acute Tox. 4	Acute toxicity cat. 4

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This SDS was prepared on the basis of safety data sheet delivered by manufacturer, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Additional information

Date of update:	17.11.2023
Version:	2.0/EN
Changes:	sections: 1.2 (uses advised against), 8.1, 16 (additional information)
Safety Data Sheet made by:	**THETA Consulting Sp. z o. o.** (based on manufacturer's data)

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.