

PHTALIC DILUENT

Issue date: 01.06.2015

Update: 07.01.2020

Version 4/CLP

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

1.1. Product identifier

Commercial name:

PHTALIC DILUENT

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

Use in coats, cleaning agents, function liquids, road structures and infrastructure as a component of binders and substance releasing products, manufacturing of rubber products.

1.3. Details of the supplier of the safety data sheet

„TRANS-MICHOR” Sp. z O.O. Sp. Kom.

ul. Skłęczkowska 18

99-300 Kutno

tel.: +48 601 385 234

e-mail: handlowy@transmichor.pl

1.4. Emergency telephone number

+48 42 631 47 25 – National Toxicological Information Centre, Łódź

SECTION 2: Hazards identification

2.1. Classification of the mixture

Classification Regulation (EU) No. 1272/2008

The mixture is classified as hazardous.

Flam. Liq. 2

H225 - Highly flammable liquid and vapour

Repr. 2

H361 Causes damage to organs.

STOT RE 2

H373 Irritating to exposed organs.

Skin Irrit.2

H315 Skin irritating.

Asp. Tox. 1

H304 - Swallowing and inhaling may cause death.

STOT SE 3

H336 May cause drowsiness and dizziness.

2.2. Label elements

Labelling in compliance with Regulation (EU) No. 1272/2008

Hazard statements

DANGER

Pictograms



GHS02

GHS07

GHS08

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Statement indicating the type of hazard

H225 Highly flammable liquid and vapour
H304 - Swallowing and inhaling may cause death.
H315 Skin irritating.
H336 May cause drowsiness and dizziness.
H361 Hazardous to reproduction.
H373 toxic to organs.

P-phrases (precautions)

Prevention

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

Response

P301 + P310 IF SWALLOWED: Immediately contact a TOXIC CENTRE or a physician.

P304 + P340 IF INHALED: In case of breathing problems, move the victim for fresh air and place in a position ensuring unrestricted breathing.

P303+P361+P353 IN CASE OF SKIN CONTACT (or hair): Remove/take off all contaminated clothing immediately. Rinse the skin under a water stream/shower.
Do not cause vomiting.

P331

Storage

P210 Store away from sources of heat/sparks of open fire, hot surfaces.
Smoking is forbidden.

P243 Take precautions against static discharge.

Disposal

P501 Dispose of the content/container in compliance with local and regional regulations.

Additional information:

Contains: Benzene <0.01%, toluene <0.3%, n-hexane <1%

2.3. Other hazards

EUH066 - Repeated exposure may cause drying or cracks of skin. The substance does not meet the PBT or vPvB criteria in accordance with appendix XIII

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2. Mixture

Chemical nature: mixture of organic substances.

Substance name

Identifier

Classification 1272/2008

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Polyaromatics	Index 601-021-00-3 CAS 108-88-3 WE 203-625-9	Flam.liq 2 STOT RE 2 Skin Irrit. 2 STOT SE 3 Repr. 2 STOT RE 2	H225 H304 H315 H336 H361 H373	99
Butyl acetate	Index 607-025-00-1 CAS 123-86-4 WE 204-658-1	Flam. Liq. 3 STOT SE 3	H226 H336	<1

*** - Designated NDS**

The full text of H-statements and acronyms of symbols, hazard classes and codes of categories are provided in section 16 of the safety data sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled:

If inhaled, consult a medical specialist. When the victim is conscious - take the victim out of the hazardous area. Ensure that the victim stays calm in any position, protect against heat loss. In case of breathlessness – have qualified medical personnel administer oxygen. Unconscious victim - to be taken away from the hazardous area, place the victim in a lateral position, take dentures and other foreign bodies from the victim's mouth. If the victim does not breathe - administer artificial respiration mouth-to-mouth.

Ensure professional medical help.

If swallowed:

First contact a physician or a toxicology centre.

Do not cause vomiting - risk of regurgitation. Administer 150 ml of liquid paraffin. Do not administer milk, fats or alcohol. In case of breathlessness – have qualified medical personnel administer oxygen. If the victim is unconscious - proceeds like in case of inhaling.

In case of eye contact:

Remove contact lenses. Wash the contaminated eyes with much lukewarm water for 15-20 minutes with the eyelids open.

Ensure professional ophthalmologist help.

In case of skin contact:

Remove contaminated clothing. Wash the contaminated skin with soap and water and then carefully rinse with a large quantity of water. .

When skin irritation persists or there are any other alarming symptoms, consult a physician.

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

Swallowing and inhaling of toluene may cause death. Inhaled toluene may act like a drug on the central nervous system. High toluene concentrations result in disorders of the central nervous system manifested in disorders of movement coordination and balance and drowsiness. There may be disorders to the rhythm and conductivity of the heart muscle and loss of consciousness. Skin contact may skin reddening, peeling, swelling and irritation. Repeated exposure may cause drying or cracks of skin.

Direct contact with the liquid may cause tearing, reddening, swelling, pain and irritation of eyes.

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Aspiration of the liquid preparation or vomit to lungs may cause chemical pneumonia. Extended skin contact with vapour and liquid preparation will cause skin peeling, drying, cracks, irritation and inflammation.

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

Resources should be available at the workplace to provide specialist and immediate assistance. If inhaled, immediate medical assistance is necessary. Provide the medical personnel with the safety data sheet, label or packaging.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media:

sprayed water, carbon dioxide CO₂, power, foam.

Unsuitable extinguishing media:

Do not apply water jet onto the surface of the burning mixture.

5.2. Special hazards arising from the mixture

Specific fire hazards.

Thermal decomposition may release irritating gases and vapours.

Liquid, flammable mixture. Product vapours are heavier than the air, they may move on long distances and collect above the ground, pose a risk of ignition.

Explosion hazard.

Under favourable temperature and humidity conditions, explosive mixtures with the air are generated.

5.3. Advice for firefighters

Apply standard extinguishing methods of chemical fire.

Containers exposed to high temperatures should be cooled with water and removed from the hazardous area if possible.

Use water spray to precipitate product vapours. Spillage that is not burning to be covered with a layer of foam. Do not dispose of the mixture to sewers and water - a potential vapour explosion hazard.

Firefighters' equipment:

Clothing resistant to high temperatures. Self-containing breathing apparatus.

SECTION 6: Accidental release measures

6.1. Individual protective measures, protective equipment and emergency procedures

Remove potential ignition sources. Do not smoke. Ensure adequate ventilation.

Precipitate vapours with water mist.

Act in compliance with the internal fire fighting instructions.

Rescuers should be dressed in protective clothing:

protective gloves coated with a substance resistance to organic thinners, hermetic goggles and breathing apparatus if necessary.

6.2. Environmental precautions

Collect the spilled mixture as fast as possible. Secure catch pits, water and soil. Prevent environment contamination.

In case of a major contamination of a watercourse, sewage system or soil contamination, notify the competent administration and inspection authorities and rescue organisations.

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6.3. Methods and materials for containment and cleaning up

Secure damaged packaging.
Ventilate the hazardous area and avoid inhaling the vapours.
Collect with absorbents (e.g. sand, diatomite, vermiculite, silicone gel). Place the collected mass in a replacement container and have it disposed of.
Wash off the cleaned area with plenty of water.
In case of a mixture leak to surface waters, warn the users.

6.4. References to other sections

Individual protective equipment:
section 8 Disposal methods: section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

During the handling of the mixture: Prevent the generation and spread of fire. Prevent the development of aerosols.
Prevent discharge to the environment,
Prevent discharge to sewers.

General industrial OH&S regulations apply. When handling the product: do not eat, do not drink and do not smoke. Replace contaminated clothing.
Wash contaminated clothing before it is re-used. Wash hands and face before breaks at work.
After work, wash the entire body and clean personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage places must be adapted to the storage of hazardous, flammable products.
Store solely in original containers with an appropriate label, in Polish, compliant with the applicable regulations.
Store in hermetic containers.
Open containers to be handled with care to prevent any spillage. Storage temperature <30°C.
Materials to be avoided: Strong oxidants
Protect against direct sunlight and strong heat sources. Read the safety data sheet or labels.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Domestic values of highest permissible concentrations at workplaces.

in accordance with Regulation of the Minister of Family, Labour and Social Policies of 12.06.2018 (Journal of Laws No. 2018, item 1286) on highest permissible concentrations and intensity of health hazardous agents at workplaces.

SUBSTANCE	IDENTIFIER	NDS (mg/m ³)	NDSCh (mg/m ³)	NDSP (mg/m ³)
toluene		100	200	—
Butyl acetate		200	950	—

Air contaminating substances are not generated in case of correct handling and

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application.

Typical DNEL values for employees and consumers:

DNEL employee (skin contact, chronic toxicity)	384 mg/m ³ / 24h
DNEL employee (inhaling, chronic toxicity)	192 mg/m ³
DNEL consumer (inhaling, acute toxicity)	384 mg/m ³ / 24h
DNEL consumer (inhaling, chronic toxicity)	192 mg/m ³
PNEC water, sediments, soil, sewage treatment plants,	0.68 mg/l

8.2. Exposure controls

Engineering measures

Do not exceed maximum concentrations of hazardous components at workplaces.
Equipment in explosion-proof finish

Personal protective equipment.



Eye or face protection

Use closely fitting safety goggles or face shields.
Bottles to rinse eyes with clean water or eye washers close to working places.

Skin protection



Hand protection:

Protective gloves should be made of nitrile/chloroprene:
(thickness 0.65 +/- 0.1 mm, breakthrough time => 480 min),

Nitrile:

(thickness 0.4 +/- 0.05 mm, breakthrough time => 480 min); fluorocarbon rubber:

(Thickness 0.7 +/- 0.1 mm, breakthrough time => 480 min) compliant with standard EN 374.

Review the resistance to chemicals and time of use. It is recommended to use a protective cream on exposed body parts.

During work close to objects with sharp edges, gloves may be damaged.

Skin protection:

Protective clothing, shoes. Safety shower.

Respiratory protection

Respiratory protection in case of an accident at work in an atmosphere containing product vapours - filters compliant with PN-EN 149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance:	In normal conditions liquid.
b) Odour:	Characteristic
c) Odour threshold	4.8-15.04
d) pH value:	Not applicable.
e) Melting/freezing point:	<-95 °C

MATERIAL SAFETY DATA SHEET

According to Regulation (EU) No. 830/2015 of 28.05.2015;

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f) Initial boiling point and boiling range	>110,6 °C
g) Flash point:	4,4 °C
e) Evaporation rate	No data available.
i) Flammability (solid, gas):	Not applicable
j) Upper/lower flammability limit:	7.0-1.2 % vol.
k) Vapour pressure:	29 hPa
l) Vapour density	>3.18 (air=1)
m) Relative density:	0.860-0.870 g/cm ³ /20°C
n) Solubility:	Not applicable
o) Partitioning coefficient: n-octanol/water	log Pow 2.73
p) Auto-ignition temperature	270-470 °C
q) Decomposition temperature:	No data available.
r) Viscosity:	0.56 mPa s 40 °C
s) Explosive properties:	Not explosive
t) Oxidising properties:	Not oxidising

9.2. Other data

Minimum ignition energy	0.24 mJ
Electrical conductivity	0.10 pS/m
Surface tension	33 mN/m at 25 °C

SECTION 10: Stability and Reactivity**10.1. Reactivity**

On normal conditions, the mixture is chemically stable. May react with strong oxidants.

10.2. Chemical stability

Under normal storage and use conditions, the mixture is chemically stable.

10.3. Possibility of hazardous reactions

Unknown. Is not subject to dangerous polymerisation.

10.4. Conditions to avoid

Avoid contact with strong heat sources - direct sunlight and flames.

10.5. Incompatible materials to avoid

Strong oxidants.

10.6. Hazardous decomposition products

None when handled as intended. During combustion: carbon dioxide and carbon oxide.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Substances**

The most frequent exposure is by inhaling. Exposure by swallowing and in skin contact is also important.

DL50 - orally rat >5580 mg/kg DL50

– skin rabbit >5000 mg/kg

CL50 – inhalation rat >20 mg/m³ (4h)

Local effects:

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Routes of exposure:

By inhaling, by swallowing, skin contact.

Skin contact:

Skin irritating.

Repeated exposure may cause drying or cracks of skin.

Eye contact:

Not irritating to eyes.

Respiratory tracts

Hazardous as a result of inhaling; creates a major hazard to health in case of prolonged exposure.

Vapours may cause drowsiness and dizziness.

Short breath and cough occur.

Digestive tract:

Harmful effects; belly pain, nausea, vomiting and may cause lung damage if swallowed.

In more serious instances, loss of consciousness occurs.

Health effects of acute exposure:

Disorder of digestion organs.

Health effects of chronic exposure:

Inflammation of respiratory tract, conjunctiva of the eyes, headaches, nervous system problems.

Complications:

Potential loss of hearing or occurrence of colourful images.

Delayed, indirect or chronic effects of short- and long-term exposure

No effects.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity for aquatic organisms:

Fish:

LC50 (Lepomis macrochirus) = 24mg/l/96h

LC50 (Carassius auratus) = 13mg/l/96h

LC50 (Oncorhynchus kisutch) = 6.3mg/l/96h

LC50 (Pelecypoda reticulata) = 59.3 mg/l/96h

Acute toxicity for aquatic invertebrates: EC50

(Daphnia magna) = 10 mg/l /48h

Acute toxicity for algae:

EC50 (Selenastrum capricornutum, biomass) =

32mg/l/72h Acute toxicity for crustaceans:

NOEC (Ceriodaphnia dubia) = 38µM(7 days)

12.2. Persistence and degradability

Biodegradable product, not subject to hydrolysis in the environment.

12.3. Bioaccumulative potential

The mixture is not subject to major bioaccumulation – 2,73 logPow.

12.4. Mobility in soil

No data.

12.5. Results of PBT and vPvB assessment

The substance does not meet the PBT or vPvB criteria in accordance with appendix XIII

12.6. Other adverse effects

Prevent discharge of the substance to sewers and soil waters.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code 07 01 04* Other diluents, washing liquids and mother liquors. Thermal processing of waste in onshore installations or devices. Used packaging to be disposed of with specialised companies.
Completely empty the packaging.

SECTION 14: Transport information

	ADR/RID 1993	IMGD 1993	IATA 1993
14.1. UN number	FLAMMABLE LIQUID MATERIAL I.N.O.		
14.2. UN proper shipping number			
14.3. Transport hazard class(es)	3	3	3
Classification code	F1	F1	F1
Warning label No. 3	 	 	 
14.5. Environmental hazards	no	F-E , S-D	no
14.6. Special precautions for user	ADR specific regulation S2, S20		
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code			
Hazard number	33		
Warning label No. 3			
Packaging group II.			

SECTION 15: Regulatory information

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

The material safety data sheet prepared on the basis of:

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), 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.
- Act on substances and mixtures thereof of 25.02.2011 (Journal of Laws 63, item 322).
- Regulation of the Minister of Health of 20.04.2012 on packaging of hazardous substances hazardous mixtures and certain other mixtures (Journal of Laws of 25.04.2012, item 445) as amended.
- Regulation of the Minister of Health of 12.01.2015 on criteria and classification methods of chemical substances and mixtures thereof (Journal of Laws of 2015, item 2018).
- Regulation of the Minister of family, Labour and Social Policies of 12.06.2018 on highest permissible concentrations and intensity of health hazardous agents at workplaces (Journal of Laws of 2018, item 1286).
- Act of 14.12.2012 on waste (Journal of Laws of 2013, item 21).
- Regulation of the Minister of environment of 26 January 2010 on references to certain substances in the air (Journal of Laws of 2010, No. 16, item 87).
- Act of 13.06.2013 on packaging and packaging materials (Journal of Laws of 2013, item 888)
- Classification of hazardous goods in compliance with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
- Regulation of the Minister of Family, Labour and Social Policies of 26.09.1997 on general occupational safety and hygiene regulations at work (Journal of Laws of 2003, No. 169, item 1650), as amended.
- Regulation of the Minister of 30.12.2004 on occupational safety and hygiene at work related to the occurrence of chemical agents at work (Journal of Laws of 2005, No. 11, item 86), as amended.

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- Act of 19.08.2011 on carriage of hazardous goods (Journal of Laws of 2011, No. 227, item 1454).
- Regulations to International Carriage of Dangerous Goods by Rail (Journal of Laws of 2011, No. 137, items 804 and 805).
- European Agreement concerning the International Carriage of Dangerous Goods by Road ADR (app. to Journal of Laws of 2002, No. 0, item 815).
- Government Declaration of 28 May 2013 on the effective data of amendments to appendices A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road ADR, made in Geneva on 30 September 1957 (Journal of Laws, No. 0, item 815).

15.2. Chemical safety assessment

No chemical safety assessment was made for the substance.

SECTION 16: Other information

Meaning of hazard statements from the following sections: 3

- H225** Highly flammable liquid and vapour
H304 Swallowing and inhaling may cause death.
H315 Skin irritating.
H336 May cause drowsiness and dizziness.
H361 Causes damage to organs. Toxic
H373 to organs.
H410 Toxic to aquatic organisms with lasting effects.

Recommended restrictions to use:

For professional use only.

Training advice

Before use, review the safety data sheet that was prepared on the basis of information provided by product manufacturers, domestic regulations in force on the date hereof. Before starting work, persons who handle the product should be trained on the properties and handling of the product.

Flam. Liq. 2 Highly flammable substance, hazard category 2

Repr. 2 Harmful to reproduction, hazard category 2

STOT RE 2 Toxic to organs, hazard category 2

Asp. Tox. 1 Hazard due to aspiration, hazard category 1

STOT RE 3 Toxic to exposed organs - one-off exposure, hazard category 3

CAS (Chemical Abstracts Service)

WE number means of the three numbers presented below:

- number assigned to the substance in the European Inventory of Existing Commercial chemical Substances (EINECS),
- number assigned to the substance in the European List of Notified Chemical Substances (ELINCS)
- number in the list of chemical substances listed in the publication by the European Commission "No-longer polymers"

NDS - highest permissible concentration of health harmful substances at workplaces

NDSCh - highest short-term exposure limit **NDSP** - highest threshold limit value **DSB** – permissible concentration in biological material **DGW** – lower explosive limit

GGW – upper explosive limit

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high persistence and very high bioaccumulation potential

UN number - Material identification number (UN number)

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road,

IMO - International Marine Organisation

RID - Regulations to International Carriage of Dangerous Goods by Rail,

IMDG - International Maritime Dangerous Goods Code

ICAO - Technical Instructions for Safe Carriage of Hazardous Materials by Air

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Other information:

The product described in the safety data sheet shall be stored and used in accordance with good industrial practices and in compliance with all applicable laws.

The information in the safety data sheet is based on the current knowledge, is aimed at describing the product in terms of legal regulations related to safety, health and environmental protection. The information may not be understood as a guarantee of any specific properties.

The user of this product must decide what safety measures are necessary to safely use this product and it shall be responsible for any effects resulting from incorrect use of the product.