

**MAGNESIUM MONOPEROXYPHthalATE  
TECHNICAL (~90%)**

DATE OF ISSUE: 13.04.2017 ISSUE: 1

DATE OF REVISION: - VERSION: -

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. PRODUCT IDENTIFIER:**COMMERCIAL NAME: **MAGNESIUM MONOPEROXYPHthalATE TECHNICAL (~90%)**

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Powder with oxidizing and bleaching properties.

Contains: magnesium monoperoxyphthalate hexahydrate

**1.2. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:****PRODUCER**

Innovation Enterprise „IMPULS”,

Władysław Fediuk

2, Jelenia str; 80-336 Gdańsk Oliwa, Poland

**PRODUCTION PLANT:**

34, Zastawna str; 83-000 Pruszcz Gdański, Poland

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e-mail: [impuls@impuls.pl](mailto:impuls@impuls.pl)**1.3. EMERGENCY TELEPHONE NUMBER:** (+48 58) 692-29-62, 24-hours

European emergency number: 112,

Unit responsible for the safety data sheet: [laboratorium@impuls.pl](mailto:laboratorium@impuls.pl)**SECTION 2 HAZARDS IDENTIFICATION****2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Basing on Regulation (EU) nr 1272/2008:

Acute tox. Cat.4	H312 Harmful in contact with skin.
Skin irrit.2	H315 Causes skin irritation.
Eye irrit.2.	H319 Causes serious eye irritation
STOT SE 3	H335 May cause respiratory irritation.

**2.2. LABEL ELEMENTS****SIGNAL WORD(S):****WARNING****HAZARD PICTOGRAMS:****HAZARD STATEMENTS:**

H312 Heating may cause a fire.

H315 Causes skin irritation.

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

**PRECAUTIONARY STATEMENTS:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P305 + P351 + P338 IF IN EYES: rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. OTHER HAZARDS**

Not established

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Chemical name:** magnesium monoperoxyphthalate hexahydrate**CAS Number:** 84665-66-7**Content:** 90% wag.**SECTION 4 FIRST AID MEASURES****4.1. DESCRIPTION OF FIRST AID MEASURES****GENERAL:** Lead out the injured beyond endangered terrain. Send unauthorized people off from the place of the accident. Protect from heat loss.**INHALATION:** Avoid fumes inhalation. Irritation of nasal mucosa and trachea may appear. In case of inhalation exposure get the victim out of the unsafe area, ensure access to fresh air and place the victim in a half-sitting position. Ensure peace and prevent from heat loss. Seek the medical advice if the symptoms occur.

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- SKIN:** Remove and clean contaminated clothing and shoes. Immediately wash affected areas with copious amounts of water. If disease's symptoms appear, seek medical attention. Do not use the soap if the burns occur.
- EYE:** Immediately flush eyes with running water for at least 15 minutes. If irritation persists, seek medical attention.
- INGESTION:** If swallowed DO NOT induce vomiting. Rinse mouth with water then give water to drink by small portions. Seek medical attention and show the label

**4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

Causes severe skin burns and eye damage. If swallowed causes severe respiratory track damage. Health effects of chronic exposure were not specified.

**4.3. IDENTIFICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

If the person is unconscious, make sure the respiratory track is obstructed and place him in the recovery position. Provide medical assistance.

**SECTION 5****FIREFIGHTING MEASURES**

Oxidizer, May intensify fire.

**5.1. EXTINGUISHING MEDIA:**

Use extinguishing media proper for features of burning material. Extinguishing media inappropriate due to safety regulations: fire fighting powder, extinguishing foam.

**5.2. SPECIAL HAZARD ARISING FROM THE SUBSTANCE OR MIXTURE:**

In case of fire liberates dangerous gas oxygen. During the heating it liberates toxic gas.

**5.3. ADVICE FOR FIREFIGHTERS:**

Use gastight protective clothing and personal breathing apparatus.  
Do not allow the after-extinguishing water to get into groundwater or surface waters

**SECTION 6****ACCIDENTAL RELEASE MEASURES****6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Avoid contact with the substance. Protect eyes. In case of contamination, wash with plenty of water. Avoid raising dust. Do not inhale dust. Use safety goggles and dust filter mask. Take care of good ventilation.

**6.2. ENVIRONMENTAL PRECAUTIONS:**

Damaged container separate from others and seal. Do not allow the preparation to get into groundwater flow and soil.

**6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**

Carefully shovel spills into appropriate containers for disposal. Universal adsorbing, neutral agents can be used. To remove residue, rinse with water. Spilled product shall not be placed again in the original packaging (danger of autonomous degradation).

**6.4. REFERENCE TO OTHER SECTIONS:**

Spilled preparation must not be put back to the original packaging. Do not allow to contact with flammable substances and mixtures.

**SECTION 7****HANDLING AND STORAGE****7.1. PRECAUTIONS FOR SAFE HANDLING:**

Prevent the mixture from contamination, sunlight and heat exposure. Store away from heavy metal ions, trivalent metals, alkali, reductive agents and combustible materials.

Provide good ventilation. Follow the rules of work safety and hygiene concerning chemical substances. Do not allow the preparation to get into sewage system. A training concerning work safety and hygiene in the range of handling with caustic substances is required. Avoid contact with eyes and skin. Use safety goggles and gloves. DO not eat or smoke while using the product.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store the product in dry, cool and well ventilated areas, far from the source of heat. Do not keep with inflammable materials. Keep in tightly closed containers in the temperature between 15 <30°C. Packing should be regularly visually controlled to check tightness.

Substance shall not be stored alongside with: alkali, metal salts, reducing agents, combustible substances. Avoid contact with bases. Isolete from flammable material.

**7.3. SPECIFIC END USE(S):**

Not defined

**SECTION 8****EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1. CONTROL PARAMETERS:**

**VALUE OF MAC (MAXIMUM ACCEPTABLE CONCENTRATION) AND IMAC (INTERIM MAXIMUM ACCEPTABLE CONCENTRATION) OF HAZARDOUS TO HEALTH AGENTS IN WORKING ENVIRONMENT** (according to the Regulation of the Health Minister, dated 6<sup>th</sup> of June 2014 – Dz. U. 2014, pos. 817, with further changes): not established for this substance

**8.2. EXPOSURE CONTROLS:****8.2.1. APPROPRIATE ENGINEERING CONTROLS**

Using the preparation requires general ventilation of the room. Ventilating installation should be regularly controlled

**8.2.2. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:**

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Keep the preparation well away from foodstuffs. Do not eat or drink and do not smoke during work. Wash hands during stoppages and at the end of work. Do not inhale the dust. Do not let to eye contact. Avoid contact with skin and clothes.

Provide appropriate ventilation in a place of work. When value of MAC in air will be exceed it is recommended to use respiratory protection.

- A) EYE/FACE PROTECTION Use protective goggles
- B) SKIN PROTECTION:
- I) HAND PROTECTION Use protective gloves
  - II) OTHER Use protective clothes and shoes, acid-resistant
- C) RESPIRATORY PROTECTION It is recommended to use anti-dust face mask. In case of raising dust use breathing apparatus.
- D) THERMAL HAZARDS Not defined

**8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS**

Product does not pose a threat for environment, but because of its chemical character it is recommended to neutralize the product before channeling to water or waste waters.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES****9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

		<u>Value / range</u>
a)	Appearance:	white powder
b)	Odour:	characteristic of peracetic acid
c)	Odour threshold:	not established
d)	pH:	4,5 ÷ 5,5
e)	Melting point / freezing point:	not established
f)	Initial boiling point and boiling range:	not applicable
g)	Flash point:	not established
h)	Evaporation rate:	not applicable
i)	Flammability (solid, gas):	not established
j)	Upper/lower flammability or explosive limits:	not established
k)	Vapour pressure:	not applicable
l)	Vapour density:	not applicable
m)	Relative density (20°C):	550 ÷ 700 kg/m <sup>3</sup> (20°C)
n)	Solubility (ies):	soluble in water 130 g/l (5°C), 220 g/l (30°C)
o)	Partition coefficient: n-octanol/water:	not established
p)	Auto-ignition temperature:	not applicable
q)	Decomposition temperature:	>60°C
r)	Viscosity:	not applicable
s)	Explosive properties:	not established
t)	Oxidising properties:	oxidizer

**9.2. OTHER INFORMATION:**Value/range

Active oxygen content: ≥ 5,6% of weight

**SECTION 10****STABILITY AND REACTIVITY****10.1. REACTIVITY**

STABLE UNDER NORMAL CONDITIONS AND DECLARED STORAGE TEMPERATURE. DANGER OF DECOMPOSITION UNDER THE INFLUENCE OF STRONG HEATING, ALSO DURING CONTACT WITH METALS, ALKALI AND REDUCING AGENTS. DECOMPOSITION AT THE TEMPERATURE ABOVE 60°C

**10.2. CHEMICAL STABILITY**

Product kept in defined conditions stays stable during 36 months from production date

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**

Stable under normal conditions. Danger of decomposition under the influence of strong heating, metallic and non-metallic elements, reducing agents, alkali.

**10.4. CONDITIONS TO AVOID**

Direct sun, high temperatures, possibility of contamination

**10.5. INCOMPATIBLE MATERIALS**

Bases, metals, reducing agents, flame initiators, accidental contaminations.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

Water vapour and oxygen due to exothermic decomposition.

**SECTION 11****TOXICOLOGICAL INFORMATION****11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

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**11.1.2. Mixture**

**Accidentally inhalation:** may cause mucosal and respiratory track irritation (caugh and souls). May cause edema of respiratory track.

**Contact with skin:** causes skin burns. Local contact can cause necrosis of the skin and mucous membranes. Complications: scarring.

**Contact with eyes:** causes serious burns. Risk of severe eye damage exists.

**Accidentally ingestion:** causes severe burns of digestive system. Risk of irreversible health changes exists.

**TOXICOLOGICAL DATA OF PREPARATION'S COMPONENTS MENTION DURING CLASSIFICATION OF THE PRODUCT:**

	<i>Magnesium Monoperoxyphthalate</i>
11.1.1.a) ACUTE TOXICITY	LD50 Oral-rat-2.300 mg/kg LD50Dermal-rabbit-2.000 mg/kg
11.1.1.b) SKIN CORROSION / IRRITATION	Rabbit- causes irritation
11.1.1.c) SERIOUS EYE DAMAGE / IRRITATION	Rabbit- moderate eye irritation
11.1.1.d) RESPIRATORY OR SKIN SENSITISATION	No data available
11.1.1.e) GERM CELL MUTAGENICITY	No data available
11.1.1.f) CARCINOGENICITY	IARC: no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
11.1.1.g) REPRODUCTIVE TOXICITY	No data available
11.1.1.h) STOT – SINGLE EXPOSURE	May cause respiratory system irritation
11.1.1.i) STOT – REPEATED EXPOSURE	No data available
11.1.1.j) ASPIRATION HAZARD	No data available

**SECTION 12**
**ECOLOGICAL INFORMATION**

Product has not been classified as harmful for environment. Product does not pose a threat for environment, but because of its chemical character it is recommended to neutralize the product before channeling to water or waste waters. Can modulate of pH of water.

**INFORMATION PROVIDED TO EVALUATE THE ENVIRONMENTAL IMPACT:**

12.1. TOXICITY	toxicity to fish <i>Oncorhynchus mykiss</i> (rainbow trout): LC50 (7 d) : 38,5 mg/l toxicity to water invertebrates ( <i>Daphnia</i> ): EC50 (24h): 37 mg/l
12.2. PERSISTENCE AND DEGRADABILITY	Readily biodegradable compound.
12.3. BIOACCUMULATIVE POTENTIAL	No data available
12.4. MOBILITY IN SOIL	No data available
12.5. RESULTS OF PBT I VPVB ASSESSMENT	PBT and vPvB not available
12.6. OTHER ADVERSE EFFECTS	No data available

**SECTION 13**
**DISPOSAL CONSIDERATIONS**
**13.1. WASTE TREATMENT METHODS**
**PRODUCT:**

Compliance the rules of the Act dated 14<sup>th</sup> of December 2012 about wastes (Dz. U. Nr 2013, pos. 21) with further changes.

Waste classification in accordance with the Regulation of the Minister of the Environment dated 09<sup>th</sup> of December 2014 (Dz. U. 2014, poz.1923).

Waste code: 07 06 99- other not specified wastes; 16 81 01- wastes with dangerous properties

Product should be considered as an inorganic compound and should be utilized in accordance with Local Regulations.

Undiluted product cannot be directed into sewage system or sewage treatment plant.

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**PACKAGING:**

 Compliance the rules of the Act dated 13<sup>th</sup> of June 2013 about packaging and its wastes (Dz. U. Nr 2013, pos. 888) with further changes

Waste code: 15 01 02 – plastic packaging

The packaging of repeated usage after rinsing can be used again or recycled

**SECTION 14**
**TRANSPORT INFORMATION**

		Overland transport ADR/RID	Air transport ICAO/IATA	Sea transport IMDG/IMO
14.1	UN number :	3108	3108	3108
14.2	UN proper shipping name	Organic peroxide type E solid (contains magnesium monoperoxyphthalate hexahydrate) 2nd transport category	Organic peroxide type E solid (contains magnesium monoperoxyphthalate hexahydrate) 2nd transport category	Organic peroxide type E solid (contains magnesium monoperoxyphthalate hexahydrate) 2nd transport category
14.3	Transport hazard class(es)	5.2. „Organic Peroxides“	5.2. „Organic Peroxides“	5.2. „Organic Peroxides“
	Use warning sticker			
14.4	Packing group	2nd transport category	2nd transport category	2nd transport category
14.5	Environmental hazards	Proper conditions transport and safety rules compliance protect from threat	Proper conditions transport and safety rules compliance protect from threat	Proper conditions transport and safety rules compliance protect from threat
14.6	Special precaution for users	Follow with section 6, 7 and 8 of MSDS	Follow with section 6, 7 and 8 of MSDS	Follow with section 6, 7 and 8 of MSDS
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

**SECTION 15**
**REGULATORY INFORMATION**
**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC TO 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) with further changes.

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.

 Regulation (EU) No ) 2015/830 of 28<sup>th</sup> 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)

Regulation (EC) No 1152/2010 of 8 December 2010 amending, for the purpose of its adaptation to technical progress, Regulation (EC) No 440/2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents with further changes.

 Act dated 25<sup>th</sup> of February 2011 about chemical substances and its mixtures – Dz. U. Nr 63, pos. 322.

 Act dated 20<sup>th</sup> of March 2015 about changes in Act about chemical substances and its mixtures (Dz. U. 2015, poz. 675) with further changes.

 Regulation of the Minister of the Health dated 20<sup>th</sup> fo April 2012 concerning marking of packaging of dangerous substances and preparations and some chemical preparations (Dz. U. Nr 2012, pos. 455) with further changes.

 The value of MAC and IMAM is in accordance with the Regulation of the Minister of the Labor and Social Politic dated 06<sup>th</sup> of June 2014 (Dz. U. Nr 2014, pos. 817) with further changes.

 Act dated 14<sup>th</sup> of December 2012 about waste - Dz. U. Nr 2013, pos. 21, with further changes.

 Waste classification in accordance with the Regulation of the Minister of the Environment dated 09<sup>th</sup> of December 2014 (Dz. U. Nr 2014, pos. 1923 with further changes).

 Act dated 13<sup>th</sup> of June 2013 about packaging and its wastes (Dz. U. Nr 2013, pos. 888) with further changes.

**SIGNAL WORD(S):**
**WARNING**
**HAZARD STATEMENTS:**
**H312** Heating may cause a fire.

**H315** Causes skin irritation.

**H319** Causes serious eye irritation

**H335** May cause respiratory irritation.

**HAZARD PICTOGRAMS:**


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Remove contact lenses, if present and easy to do. Continue rinsing.

**15.2. CHEMICAL SAFETY ASSESSMENT:**

No chemical safety assessment has been made

**SECTION 16****OTHER INFORMATION**

The information contained herein is based on current knowledge and experience: no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information obtained by the user. No warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. This information is furnished upon the condition the person receiving it shall determine the suitability for the particular purpose. This MSDS is to be used as a guideline for safe work practices and emergency response

**Legend to abbreviations and acronyms used in the safety data sheet**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE	Acute Toxicity Estimates.
BCF	Bioconcentration Factor - the accumulation of a chemical in or on an organism when the source of chemical is solely water.
CAS no	A numerical identifier assigned by Chemical Abstracts Service (CAS).
CLP	Regulation on classification, labelling and packaging of substances and mixtures.
DNEL	Derived no-effect level.
EC50	Effective concentration - effective concentration of a substance which induces a reaction on the level of 50% of the maximal value.
EC no	A identifier that is assigned to chemical substances in EINECS or ELINCS inventory.
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
IATA	International Air Transport Association.
IC50	Half maximal inhibitory concentration causing 50 % inhibition of a given parameter.
IMDG	International Maritime Dangerous Goods Code.
LC50	Lethal concentration - is the concentration required to kill 50% of tested animals after a specified test duration.
LD50	Lethal dose - is the dose required to kill 50% of tested animals after a specified test duration.
NOEC	No observed effect concentration.
MAC(TWA)	Maximum Admissible Concentration.
MAC(STEL)	Maximum Admissible Short-Term Concentration.
PNEC	Predicted No-Effect Concentration.
RID	Regulations concerning the international railway transport of dangerous goods.
UN no	four-digit number that identify material in the registry of hazardous substances of United Nations.
vPvB	Very persistent and very bioaccumulative substance.

The form of safety data sheet has been adapted to requirements of Regulation (EU) No 2015/830 of 28<sup>th</sup> May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).