

Safety Data Sheet



Synmar Thor MP2

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Version 2.02

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

1.1. Product Identifier

Product name Synmar Thor MP2

Pure substance/mixture Mixture

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

Recommended Use Lubricant Grease
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Synmar B.V.
Hogeweg 210
3815 LZ Amersfoort
The Netherlands
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For further information, please contact

Contact Point Synmar B.V.
E-mail address info@synmar.nl

1.4. Emergency telephone number

Emergency telephone +31 (0) 33 303 3044

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 3 - (H412)
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2.2. Label Elements

Product Identifier

Hazard statements

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

Harmful to aquatic life

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
tris(methylphenyl) phosphate	215-548-8	1330-78-5	01-2119531335-46	Repr. 2 (H361fd) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1-1
Triphenylphosphate	204-112-2	115-86-6	01-2119457432-41	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.1-1

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	When in doubt or if symptoms are observed, get medical advice.
Inhalation	Remove to fresh air.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

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

Symptoms	None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Use. Carbon dioxide (CO₂). Extinguishing powder. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Harmful to aquatic life with long lasting effects

Hazardous combustion products Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Special danger of slipping by leaking/spilling product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Cover liquid spill with sand, earth or other non-combustible absorbent material. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Prevent product from entering drains.

6.4. Reference to other sections

See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Use personal protective equipment as required. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

Keep container tightly closed in a dry and well-ventilated place. Never use pressure to empty; drum is not a pressure vessel.

7.3. Specific end use(s)**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Triphenylphosphate 115-86-6	-	STEL: 6 mg/m ³ TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	-
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Triphenylphosphate 115-86-6	-	TWA: 3 mg/m ³	-	TWA: 3 mg/m ³ STEL: 6 mg/m ³	TWA: 3 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Triphenylphosphate 115-86-6	STEL 6 mg/m ³ TWA: 3 mg/m ³	TWA: 3 mg/m ³	-	TWA: 3 mg/m ³ STEL: 6 mg/m ³	TWA: 3 mg/m ³ STEL: 6 mg/m ³
Chemical name	Sweden	Belgium	Greece	Turkey	Czech Republic
Triphenylphosphate 115-86-6	-	3 mg/m ³ TWA	3 mg/m ³ TWA 6 mg/m ³ STEL	-	-

Derived No Effect Level (DNEL) worker***

Chemical name	oral	dermal	Inhalation
tris(methylphenyl) phosphate 1330-78-5			0.47 mg/m ³ - systemic effects, long term***
Triphenylphosphate 115-86-6			0.55 mg/m ³ - systemic effects, long term***

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/face Protection**

Wear safety glasses with side shields (or goggles).

Hand protection

Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and Body Protection

Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Respiratory protection

None under normal use conditions.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State	Paste/Gel	Odour	characteristic
Appearance	No information available	Odour threshold	No information available
Colour	black		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point	> 180 °C / 356 °F	
Boiling point / boiling range	> 250 °C / 482 °F	
Flash Point	> 210 °C / 410 °F	
Evaporation Rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit	No data available	
Vapour pressure	No data available	@ 20° C
Vapour Density		No information available
Specific gravity	approx. 0.900 g/cm3	@ 20°C
Water solubility	No data available	@ 20° C
Solubility(ies)	Insoluble in water	
Partition coefficient		No information available
Autoignition Temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity	No data available	@ 40 °C
Dynamic viscosity	No data available	@ 40 °C
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

No information available

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

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

Incompatible with oxidising agents. Acids. Bases.

10.6. Hazardous decomposition productsThermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	No data available.
Eye Contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
tris(methylphenyl) phosphate	> 20000 mg/kg (Rat) = 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Triphenylphosphate	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 200000 mg/m ³ (Rat) 1 h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Sensitisation No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Blood, Peripheral Nervous System (PNS).

Aspiration Hazard No information available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information

Acute (short-term) algae toxicity

EC50	No information available
EC0	No information available
IC50	No information available
IC0	No information available
ErC50	No information available
EbC50	No information available

Acute (short-term) fish toxicity

LC50	No information available
LC0	No information available
EC50	No information available
EC0	No information available

Acute (short-term) aquatic invertebrate toxicity

EC50	No information available
EC0	No information available

Chronic (long-term) algae toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) fish toxicity

NOEC	No information available
LOEC	No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC	No information available
LOEC	No information available

Chemical name	Algae/aquatic plants	Fish	Crustacea
tris(methylphenyl) phosphate	-	0.1 - 0.22: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 0.21 - 0.32: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 20.4 - 41.2: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 3.2 - 10: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 3.3 - 6.2: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 4.8 - 6.4: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static	-
Triphenylphosphate	0.6 - 4: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static	0.28 - 0.5: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 0.47 - 1.04: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.53 - 0.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static 0.81 - 0.94: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1.2: 96 h <i>Oryzias latipes</i> mg/L LC50 static	0.86 - 1.2: 48 h <i>Daphnia magna</i> mg/L EC50

12.2. Persistence and degradability**Product Information**

Biodegradation	No information available
BOD	No information available
ThCO2	No information available
DOC	No information available

12.3. Bioaccumulative potential**Product Information**

Bioaccumulation (factor)	No information available
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Chemical name	Partition coefficient
Triphenylphosphate	4.59

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

12.6. Other adverse effects**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

Waste codes / waste designations according to EWC / AVV 16 03 06

SECTION 14: Transport information**ADR**

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-
Tunnel restriction code	-
Limited quantity (LQ)	-
ADR Hazard Id (Kemmler Number)	-
Note:	-

RID

14.1. UN number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
Labels	-
14.4. Packing group	Not regulated
Description	-
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	None
Classification code	-

Limited quantity (LQ) -
 Note: -

IMDG

14.1. UN number Not regulated
 14.2. UN proper shipping name Not regulated
 14.3. Transport hazard class(es) Not regulated
 Subsidiary hazard class -
 14.4. Packing group Not regulated
 Description -
 14.5. Environmental hazards Not applicable
 14.6. Special precautions for user None
 EmS-No -
 Limited quantity (LQ) -
 Note: -
 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available

IATA

14.1. UN number Not regulated
 14.2. UN proper shipping name Not regulated
 14.3. Transport hazard class(es) Not regulated
 Subsidiary hazard class -
 14.4. Packing group Not regulated
 Description -
 14.5. Environmental hazards Not applicable
 14.6. Special precautions for user None
 ERG Code -
 Limited quantity (LQ) -
 Note: -

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National Regulations**

See section 8 for national exposure control parameters

France**Occupational Illnesses (R-463-3, France) *****

Chemical name	French RG number
tris(methylphenyl) phosphate 1330-78-5	RG 34

Germany

Storage class 10

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States), Europe (EINECS/ELINCS/NLP).

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3**

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Revision note See the red text with asterisks in this safety data sheet for the latest changes.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet