

Safety Data Sheet



Synmar Thor Copper

Issue date 14-May-2018

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Version 3

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

1.1. Product Identifier

Product name Synmar Thor Copper

Pure substance/mixture Mixture

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

Recommended Use 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

Acute aquatic toxicity	Category 1*** - (H400)***
Chronic aquatic toxicity	Category 2*** - (H411)***

2.2. Label Elements

Product Identifier



Signal Word
WARNING***

Hazard statements

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects***

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

P273 - Avoid release to the environment

P391 - Collect spillage

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

2.3. Other Hazards

No information available

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-%
copper flakes (coated with aliphatic acid)***	-***	XXXXXX-XX-X	No data available	Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) ***	5-10

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. Keep eye wide open while rinsing. If symptoms persist, call a doctor.***
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor. Do NOT induce vomiting.***

Self-protection of the first aider Use personal protective equipment as required.***

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

Symptoms None known.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dyke fire-control water for later disposal.***

Unsuitable Extinguishing Media

Do not scatter spilled material with high pressure water streams***

5.2. Special hazards arising from the substance or mixture

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Very toxic to aquatic life Toxic 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

Do not touch or walk through spilled material. Stop leak if you can do it without risk. Use personal protective equipment as required. 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

Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.***

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent dust cloud.***

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Pick up and transfer to properly labelled containers. 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**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.***

General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.***

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Ensure adequate ventilation. Keep only in original container. Do not allow to enter into soil/subsoil. Restrict access to stockrooms.***

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**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC) ***

Chemical name	Fresh Water	Freshwater sediment	Sea Water
copper flakes (coated with aliphatic acid)*** XXXXXX-XX-X	7.8 µg/l***	87 mg/kg***	5.2 µg/l***
Chemical name	Sea sediment	Soil	Impact on Sewage Treatment
copper flakes (coated with aliphatic acid)*** XXXXXX-XX-X		65.5 mg/kg***	0.23 mg/l***

8.2. Exposure controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/face Protection**

Tight sealing safety 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

Skin and Body Protection	glove supplier for information on breakthrough time for specific gloves.*** 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 Do not allow into any sewer, on the ground or into any body of water.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Boiling point / boiling range	> 150*** °C*** /*** 302*** °F***	***
Flash Point	>*** 100*** °C*** /*** >*** 212*** °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	< 0.1 hPa***	@ 20°C***
Vapour Density		No information available
Specific gravity	approx. 1.000 g/cm ³ ***	@ 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 products

Thermal 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.

The following values are calculated based on chapter 3.1 of the GHS document ***

Unknown acute toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.***
ATEmix (inhalation-dust/mist)	8.35*** mg/l***

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
copper flakes (coated with aliphatic acid)***	approx. 500 mg/kg (Rat OECD 423)***	> 2000 mg/kg (Rat OECD 402)***	approx. 0.7 mg/l (Rat 4h OECD 403)***

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 Eyes, Kidney, Liver, Respiratory System, Skin.

Aspiration Hazard No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Very toxic to aquatic life Toxic 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

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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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.
OTHER INFORMATION	Waste codes should be assigned by the user based on the application for which the product was used.***

SECTION 14: Transport information**ADR**

14.1. UN number	UN3082***
14.2. UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.***
14.3. Transport hazard class(es)	9***
Labels	9***
14.4. Packing group	III***
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (copper flakes (coated with aliphatic acid)), 9, III***
14.5. Environmental hazards	yes***
14.6. Special precautions for user	None
Classification code	M6***
Tunnel restriction code	-
Limited quantity (LQ)	5 L***
ADR Hazard Id (Kemmler Number)	90***
Note:	-

RID

14.1. UN number	UN3082***
14.2. UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.***
14.3. Transport hazard class(es)	9***
Labels	9***
14.4. Packing group	III***
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (copper flakes (coated with aliphatic acid)), 9, III***
14.5. Environmental hazards	yes***
14.6. Special precautions for user	None
Classification code	M6***
Limited quantity (LQ)	5 L***
Note:	-

IMDG

14.1. UN number	UN3082***
14.2. UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.***
14.3. Transport hazard class(es)	9***
Subsidiary hazard class	-
14.4. Packing group	III***
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (copper flakes (coated with aliphatic acid)), 9, III, Marine pollutant***
14.5. Environmental hazards	This material meets the definition of a marine pollutant***
14.6. Special precautions for user	None
EmS-No	F-A, S-F***
Limited quantity (LQ)	5 L***
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	UN3082***
14.2. UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s.***
14.3. Transport hazard class(es)	9***
Subsidiary hazard class	-
14.4. Packing group	III***
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s. (copper flakes (coated with aliphatic acid)), 9, III***
14.5. Environmental hazards	yes***
14.6. Special precautions for user	None
ERG Code	9L***
Limited quantity (LQ)	30 kg G***
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

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

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects***

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

End of Safety Data Sheet