

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

1.1 Product identifier

Trade name: Aatiram® 65
non coloré

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture Fungicide

1.3 Details of the supplier of the safety data sheet

Supplier:

Cheminova Deutschland GmbH & Co. KG
FMC Agricultural Solutions
Stader Elbstraße 26
21683 Stade
Germany
Tel: +49 (0) 4141 9204 0
Fax: +49 (0) 4141 9204 210
datenblatt@fmc.com
www.fmcagro.de

Further information obtainable from:

Cheminova Deutschland GmbH & Co. KG
FMC Agricultural Solutions
Stader Elbstraße 26
21683 Stade
Germany
Tel: +49 (0) 4141 9204 0
Fax: +49 (0) 4141 9204 210
datenblatt@fmc.com
www.fmcagro.de

1.4 Emergency telephone number:

Cases of intoxication:

+49 (0) 551 19240 (GIZ-Nord Poisons Centre, Göttingen, Germany, 24 h) "Member of EPECS Network"

Hazardous substance/dangerous goods incidents (e.g. spills, leaks, fire, exposure or accident):
0800 181 7059 (CHEMTREC Germany, toll-free, 24 h)
+49 (0) 69 643 508 409 (CHEMTREC from outside Germany, 24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

STOT RE 2

H373 May cause damage to the liver through prolonged or repeated exposure.
Route of exposure: Oral.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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Safety data sheet

according to 1907/2006/EC, Article 31

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GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 GHS08 GHS09

Signal word Warning

Hazard-determining components of labelling:

thiram (ISO)

Hazard statements

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H373 May cause damage to the liver through prolonged or repeated exposure. Route of exposure: Oral.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P312 Call a POISON CENTER/doctor if you feel unwell.

P501 Dispose of contents/container to a suitable waste collection point.

Additional information:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Suspension concentrate (SC) of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 137-26-8	thiram (ISO)	54-56%
EINECS: 205-286-2	STOT RE 2, H373; Aquatic Acute 1, H400 (M=10);	
Index number: 006-005-00-4	Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302;	
Reg.nr.: 01-2119492301-45	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
	Skin Sens. 1, H317	

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CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23	Propylene glycol substance with a Community workplace exposure limit	<5%
CAS: 81065-51-2 EC number: 900-864-4	Methyl naphthalene sulfonic acid, polymer with formaldehyde, sodium salt ⚠ Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<2%
CAS: 119432-41-6	Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[2,4,6-tris(1- phenylethyl)phenoxy]-, ammonium salt Aquatic Chronic 3, H412	<2%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	<0.05%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air and to be sure, call for a doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

If contact lenses are worn, remove after 5 minutes of rinsing, then continue rinsing.

After swallowing:

Rinse mouth with plenty of water; do not swallow.

Do not induce vomiting; call for medical help immediately and show this material safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

Hazards

Condition may deteriorate with alcohol consumption.

The active substance is a dithiocarbamate.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Foam

Use carbon dioxide (CO₂) or dry chemical powder for small fires.

For safety reasons unsuitable extinguishing agents: Water with full jet

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5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Sulfur oxides (SO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

Use water spray to knock down fire fumes if possible.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid contact with spilled product or contaminated areas.

6.2 Environmental precautions:

Do not discharge into sewer, surface water or groundwater.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Disposal had to be accomplished in suitable receptacles.

If possible clean area with detergent and much water. Absorb wash liquid with absorbent and transfer to suitable containers for disposal.

Larger spills of the product which soak into the ground should be dug up and transferred to suitable containers for disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Wear personal protection equipment.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

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Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Information about storage in one common storage facility:

Do not store together with foodstuffs, beverages and feed.

Do not store with strong oxidising agents.

Additionally the restriction for joint storage must be observed (according to TRGS 510).

Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from frost.

Keep out of reach for children.

Recommended storage temperature: Store between 0 °C and 30 °C.

Storage class: 10 (TRGS 510): Combustible liquids

7.3 Specific end use(s) Use only in accordance with the instruction manual.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

57-55-6 Propylene glycol

WEL Long-term value: 474* 10** mg/m³, 150* ppm
*total vapour and particulates **particulates

137-26-8 thiram (ISO)

Exposure limit values exist in other countries.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Ensure good ventilation at the workplace.

Do not inhale gases / fumes / aerosols.

Be sure to clean skin thoroughly after work and before breaks.

The statements on personal protective equipment in the instructions for use apply when handling the product.

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Respiratory protection:



Respiratory single serving mask DIN EN 149 with filter FFP2

Protection of hands:



Protective gloves (EN 374, EN 388, EN 420)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Choose chemical resistant gloves.

Recommend are gloves made of:

Nitrile, recommended thickness of the material: ≥ 0.11 mm

Penetration time of glove material

Penetration time 480 minutes (Permeation according to EN 374 Part 3: Level 6) e.g. for Dermatril®

If other glove materials or protective gloves of other manufacturers are used, than the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles (EN 166)

Body protection:



Use suitable protective work clothing. Protective suit against pesticides (DIN 32781) is recommended when handling the product.



Sturdy shoes, e.g. rubber boots (EN 20345)

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Suspension
Colour:	Light ivory
Odour:	Sweet, aromatic
Odour threshold:	Not determined.

pH-value at 20 °C: 6-8

Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	ca. 100 °C

Flash point: > 100 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Test conducted with a similar formulation:
ca. 290 °C (EEC A.15).

Explosive properties: Product does not present an explosion hazard if used
and stored according to specifications.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Oxidising properties: No oxidising properties

Vapour pressure: Not determined.

Density at 20 °C: ca. 1.2 g/cm³

Evaporation rate: Not determined.

**Solubility in / Miscibility with
water:**

Dispersible

Partition coefficient: n-octanol/water: Thiram: log Pow (pH-unabhängig): 1.73, BCF: not
relevant. Thiram 6507/VI/99-Final- 27 June 2003

Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions of use.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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10.3 Possibility of hazardous reactions

No hazardous reactions if used and stored according to specifications.

10.4 Conditions to avoid

Protect against heat and direct sunlight.

Heating of the product will produce harmful and irritant vapours.

10.5 Incompatible materials:

Strong oxidants.

Strong acids.

10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and used according to specifications.

See Section 5 for information about hazardous decomposition products in case of fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The toxicity data were carried out with a similar formulation.

Acute toxicity

Harmful if inhaled.

LD/LC50 values relevant for classification:

Oral	LD50	> 2000 mg/kg (rat) (OECD 420)
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)

137-26-8 thiram (ISO)

Inhalative	LC50/4h	3.46 mg/L (rat, ♀)
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Primary irritant effect:

Skin corrosion/irritation Not irritating (OECD 404).

Serious eye damage/irritation Not irritating (OECD 405).

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-repeated exposure

May cause damage to the liver through prolonged or repeated exposure. Route of exposure: Oral.

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

No product data available. The product was not tested.

The classification based on the aquatic toxicity data of the active substance.

137-26-8 thiram (ISO)

LC50 (96 h)	0.046 mg/L (Oncorhynchus mykiss)
EC50 (48 h)	0.011 mg/L (Daphnia magna)

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EC50 (72 h) 0.065 mg/L (Senastrum capricornutum)

12.2 Persistence and degradability

On the basis of the data for the active substance:
Not easily biodegradable

12.3 Bioaccumulative potential

Thiram: log Pow (pH-unabhängig): 1.73, BCF: not relevant. Thiram 6507/VI/99-Final- 27 June 2003
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

Remark: Very toxic for water organisms.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must be specially treated adhering to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.
Do not reuse packing for other products.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG

UN3082

14.2 UN proper shipping name

ADR

IMDG

UN3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (Thiram)
ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (Thiram), MARINE
POLLUTANT

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14.3 Transport hazard class(es)

ADR, IMDG



Class 9 Miscellaneous dangerous substances and articles.
Label 9

14.4 Packing group

ADR, IMDG III

14.5 Environmental hazards:

Marine pollutant: Yes
Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code): 90
EMS Number: F-A,S-F
Stowage Category A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
Transport category 3
Tunnel restriction code (-)

IMDG

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIRAM), 9, III

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SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Information about limitation of use:

Young people (under the age of 18) are not allowed to work with the product (Directive 2014/27/EU amending Council Directive 94/33/EC).

Waterhazard class:

It must be excluded that plant protection products reach ground water, water course or sewage system. Therefore, they have to be stored like substances which are classified as Water Hazard Class 3. (Consequently, it is not necessary to classify plant protection products into Water Hazard Classes and to mark them in this case.)

Other regulations, limitations and prohibitive regulations

Avoid any unnecessary contact with the product.

Any misuse may cause health problems.

Don't eat treated seeds or give out as foodstuff, not even when mixed with untreated seeds.

The product is not covered by Annex 2 of the German Chemikalienverbotsverordnung (ChemVerbotsV).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This material safety data sheet was created in accordance with the Commission Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006.

Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to the liver through prolonged or repeated exposure. Route of exposure: Oral.

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.

Department issuing SDS: Regulatory Affairs

Contact:

Cheminova Deutschland GmbH & Co. KG

FMC Agricultural Solutions

Stader Elbstraße 26

21683 Stade

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Abbreviations and acronyms:

BCF: Bioconcentration Factor

EC50: Effective concentration, 50 percent

log Pow: n-octanol/water-partition coefficient

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

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**