



Safety Data Sheet

Effitab Tablets/Powder

Issued on:

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Page:

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Effitab Tablets/Powder

Item number

Tablet 1, Powder

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES WHICH ARE ADVISED AGAINST

Fuel additive. Dosage: 1g/60 litres for ongoing protection, and 2g/60 litres initially.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Importer/Distributor:

EffiTab International AB

Ramlösa Brunnshotell

Folke Bernadottes väg 445

SE-256 57 Ramlösa

Telephone: +46 (0)721-64 53 21

Website: www.effitab.se

Email: david@effitab.se

1.4 EMERGENCY TELEPHONE NUMBER

Poison Information Centre 112 (emergency), +46 (0)8-456 67 00 (office hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to CLP (Regulation 1272/2008/EC): GHS07, GHS09; Eye Irrit. 2: H319, Aquatic Chronic 2: H411.

2.2 LABELLING DETAILS

Labelling according to CLP (Regulation 1272/2008/EC)

Pictogram(s):

GHS07 GHS09



Signal word:

Warning

Hazard statements:

H319 – Causes serious eye irritation.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

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



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P305+P351+P338 – IN CASE OF CONTACT WITH EYES: Rinse carefully with water for several minutes.

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

P337+P313 – If eye irritation persists: Seek medical help.

P273 – Avoid release to the environment.

P391 – Collect spillage.

P501 – Dispose of contents/container to an approved contractor.

Contains:

1,2,4,5-Tetramethylbenzene.

Further information:

-

2.3 OTHER HAZARDS

The product does not meet the criteria for PBT (persistent, bioaccumulative, and toxic substances) or vPvB (very persistent and very bioaccumulative substances).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Composition according to CLP (Regulation 1272/2008/EC)

Chemical Name	EC No	Reg. No	CAS No	Content /Conce	Pictogram(s)	H-phrase(s)*	Category
1,2,4,5-Tetramethylbenzene	202-465-7	-	95-93-2	85-95	GHS02 Warning	H228 H411	Flam. Sol. 1 Aquatic Chronic 2
Benzenecarboxylic Acid	200-618-2	01-2119455536-33	65-85-0	0.1-0.9	GHS08 GHS05 Hazard	H315 H318 H372 (lungs; inhalation)	Skin Irrit. 2 Eye Dam. 1 STOT RE 1
iron tris(4-oxopent-2-en-2-olate)	237-853-5	01-2120770962-45	14024-18-1	0.1-0.9	GHS06 GHS05 Hazard	H331 H302 H312 H318	Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Eye Dam. 1

* For the full text of the H-phrases, see section 16.

SECTION 4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES GENERAL RECOMMENDATION

In case of the slightest doubt or symptoms that may have been caused by the product, seek medical help. Bring this safety data sheet. Keep the person warm and calm.

INHALATION

Move the person to fresh area. Contact a doctor as soon as possible. Keep the injured person warm and allow them to rest. Administer artificial respiration if the injured person has stopped breathing or is breathing irregularly. In case of prolonged throat irritation or coughing: Contact a doctor and bring the safety data sheet.

SKIN CONTACT

Wash skin with soap and water. Contact a doctor if symptoms persist.



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SPLASH IN EYES

Rinse immediately with a gentle stream of tempered water for at least five minutes. Keep eyelids wide open. Remove any contact lenses. Contact a doctor if symptoms persist.

INGESTION

If the exposed person is conscious, rinse mouth with water and then give plenty of water to drink. Contact a doctor if any symptoms develop.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH URGENT AND DELAYED

Causes severe eye irritation. Vapours cause mild irritation to the respiratory system. May cause mild skin irritation.

4.3 SPECIFICATION OF IMMEDIATE MEDICAL AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

Wash basin/sink must be available. Antiseptic ointment should be provided. Eye wash should be present near the handling area.

SECTION 5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

The product is non-flammable. Extinguish using alcohol-resistant foam, carbon dioxide or dry powder.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. In the event of fire, carbon dioxide, carbon monoxide and nitrous gases may be formed.

5.3 ADVICE FOR FIREFIGHTERS

Cool containers exposed to flames with water until well after the fire has been extinguished. Move containers from the fire area if this can be done without risk. Wear full protective gear for chemical fires including self-contained breathing apparatus (SCBA). Avoid inhaling smoke from the fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use recommended protective equipment, see Section 8. Avoid contact with skin, eyes and clothes. Do not inhale dust. Use only in well-ventilated areas. Remove all ignition sources.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent the product from entering drains or waterways. Contact the relevant authorities as soon as possible if the product has entered drains, lakes or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition in the vicinity of spills. Ensure adequate ventilation. Wear appropriate protective equipment, including gloves, safety goggles/face protection, respirators, boots, clothing or apron, as appropriate. Stop the leak if it can be done without risk. **DO NOT TOUCH** spilled material! Absorb into vermiculite, dry sand or soil, and place in containers. Flush the contaminated area with plenty of water. Be careful as floors and other surfaces may become slippery. Avoid contamination of ponds or watercourses by washing them down with water. Collect in a suitable container and dispose of for recycling or destruction as directed under heading 13.

6.4 REFERENCE TO OTHER SECTIONS

See Sections 8 and 13 for information on protective equipment and disposal considerations.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING



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Do not inhale dust. Avoid contact with skin and eyes. Use only in well-ventilated areas. Point extraction is recommended. Use recommended protective equipment, see Section 8. Wash basin/sink must be available. Antiseptic ointment should be provided. Eliminate all sources of ignition. Avoid spilling.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a dry, cool and well-ventilated place. Store away from oxidising agents. Keep away from sources of ignition.

7.3 SPECIFIC END USES

Fuel additive. See Section 1.2.

See EWC code under Section

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMIT

VALUES (AFS 2018:1)

- DNEL (Derived no-effect levels)

No data available.

PNEC

No data available.

8.2 EXPOSURE CONTROLS

RESPIRATORY PROTECTION

Use only in well-ventilated areas. In case of insufficient ventilation, use P2 filter.

PROTECTION GLOVES

Wear gloves suitable for the work to be performed.

FACE PROTECTION

Wear safety goggles/face shield. Eye wash should be available at the workplace.

PROTECTIVE CLOTHING

Wear protective clothing to avoid skin contact.

HYGIENE MEASURES

Wash hands after handling. Wash contaminated clothing before reuse. Clean contaminated floors and table surfaces. Apply barrier cream before use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Shape	Non-flammable solid (test results available)
Colour	Light amber
Odour	Hydrocarbons
Odour threshold	Not available.
pH (at 20°C)	Not available.
Melting point	70°C
Boiling point	250°C
Flash point	About 90.3°C
Evaporation rate	Not available.
Flammability	Not available.
Explosion limit	Not available.
Auto-ignition temperature	Not available.
Vapour pressure	<0.1 kPa.
Vapour density	Heavier than air



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Relative density	1.03-1.05 at 20°C
Solubility	Insoluble in water
Partition coefficient. N-octanol/water	Not available.
Thermal ignition temperature	Not available.
Viscosity	0.79 cSt at 20°C.
Explosive properties	Not available.
Oxidising properties	Not available.
Burning speed	Less than 0.1 inch/second along its main axis (CFR 1500.44)

9.2 OTHER INFORMATION

9.2.1 Hazard class: -

9.2.2 Other safety characteristics

a) Mechanical sensitivity	Not available.
b) Self-accelerating polymerisation	Not available.
c) Formation of explosive dust-air mixtures	Not available.
d) Acid/base reserve	Not available.
e) Evaporation rate	Not available.
f) Miscibility	Not available.
g) Conductivity	Not available.
h) Corrosion propensity	Not available.
i) Gas group	Not available.
j) Redox potential	Not available.
k) Potential to form radicals	Not available.
l) Photocatalytic properties	Not available.

SECTION 10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable under recommended handling and storage conditions.

10.2 CHEMICAL STABILITY

Stable under recommended handling and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Stable under recommended handling and storage conditions.

10.4 CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

10.5 INCOMPATIBLE MATERIALS

Strong oxidising agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

In the event of fire, carbon dioxide, carbon monoxide and nitrous

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON THE TOXICOLOGICAL EFFECTS

	ACUTE EFFECTS	CHRONIC EFFECTS
SKIN CONTACT	May cause mild skin irritation.	-



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EYE CONTACT	Causes eye irritation.	-
INHALATION	Vapours cause mild irritation to the	-
INGESTION	Ingestion can cause nausea and vomiting.	-

a) Acute toxicity

1,2,4,5-Tetramethylbenzene:

LD50 Oral Rat: 6989 mg/kg body weight (not acutely toxic)

Benzenecarboxylic acid:

LC50 Oral Rat 4h: 18 mg/l (not acutely toxic)

LD50 Oral Rat: 1700 mg/kg body weight (dangerous if swallowed)

LD50 Dermal rabbit : > 10000 mg/kg body weight (not acutely toxic)

The substance is irritating to eyes, skin and mucous membranes. Used as preservative in food and cosmetics (E210).

The substance may cause hives (de Groot). May also cause other allergic reactions such as hives, hay fever, asthma and skin irritation, e.g. around the mouth.

Iron tris(4-oxopent-2-en-2-olate):

LD50 Oral Rat: 1872 mg/kg body weight (harmful if swallowed)

b) Skin corrosion/irritation

May cause mild skin irritation.

c) Serious eye damage/eye irritation

Causes severe eye irritation.

d) Respiratory or skin sensitisation

No sensitisation known.

e) Germ cell mutagenicity

No mutagenicity known.

f) Carcinogenicity

No carcinogenicity known.

g) Reproductive toxicity

No reproductive toxicity known.

h) Specific organ toxicity – single exposure

None known.

i) Specific organ toxicity – repeated exposure.

None known.

j) Aspiration hazard

None known.

ABSENCE OF SPECIFIC DATA

Toxicological data for the product have not been mediated.

Further information

The product does not contain any endocrine-disrupting substances.

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environments.

ECOTOXICITY OF CONSTITUENT COMPONENTS

1,2,4,5-Tetramethylbenzene:

Toxicity

IC50 Algae 72h :5 mg/l (toxic)

Accumulability

BCF: 239.88

Log Pow: 4 (expected to bioaccumulate substantially)



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Benzenecarboxylic acid:

Toxicity

LC50 Fish 96h : 180 mg/l (Species: Gambusia affinis)

IC50 Algae 72h :60 mg/l (Species: Chlorella pyrenoidosa)

Accumulability

BCF: 21

Log Pow: 1.87 (not expected to bioaccumulate)

Degradability

BOD5/COD: 0.64-0.88

12.2 PERSISTENCE AND DEGRADABILITY

The product is biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

No data available.

12.4 MOBILITY IN SOIL AND WATER

The product is not water-soluble and is therefore not expected to be very mobile in soil and water.

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6 ENDOCRINE DISRUPTING PROPERTIES

Does not contain any endocrine-disrupting substances.

12.7 OTHER ADVERSE EFFECTS

None known.

SUMMARY

Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environments.

SECTION 13. WASTE DISPOSAL CONSIDERATIONS

13.1 WASTE FROM SURPLUS/UNUSED PRODUCTS

According to SFS 2020:614, an unused product is classified as hazardous waste.

Suggested EWC codes:

13 05 Materials from oil separator:

13 05 06* Oil from oil separator.

RESIDUAL WASTE

Residual waste is hazardous waste and is disposed of in accordance with local regulations.

WASTE TREATMENT METHODS

Dispose of in accordance with local regulations.

CONTAMINATED PACKAGING

Contaminated package is hazardous waste and is disposed of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Classified as dangerous goods according to ADR/RID/IMO/DGR.



ADR/RID (road and rail)

UN number:

UN 3077



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Goods designation: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Not otherwise specified) (1,2,4,5-Tetramethylbenzene)
Class: 9
Packing group: III
Tunnel restriction code: (-)
Hazard number: 90
Limited quantity: 5 kg per inner packaging

IMDG (sea)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(1,2,4,5- Tetramethylbenzene)
UN number: UN 3077
Class: 9
Package group: III
EmS: F-A, S-F
Flash point: 90.3°C
Marine Pollutant: Yes

ICAO/IATA (plane)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(1,2,4,5- Tetramethylbenzene)
UN number: UN 3077
Class: 9
Package group: III

ENVIRONMENTAL HAZARDS

The product is toxic to aquatic organisms, may cause long-term adverse effects in aquatic environments.

SPECIAL PRECAUTIONS

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TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

The product is not intended to be handled in bulk. The product is packaged according to the IMDG code.

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION REGARDING THE SUBSTANCE OR MIXTURE

Safety data sheets and classification in accordance with CLP (Regulation 1272/2008/EC and Regulation 2020/878/EC, REACH Annex II).

AFS 2018:1 Hygienic Limit Values.

SFS 2020:614 Waste Regulation EU Regulation 1357/2014.

15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment according to REACH has not been conducted for the product. See Section 16 for further information.

SECTION 16. OTHER INFORMATION

H-PHRASES LISTED UNDER ITEM 3 IN PLAIN TEXT

H228 – Flammable solid.

H372 – Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).



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H331 – Toxic if inhaled.

H302 – Harmful if swallowed.

H312 – Harmful in contact with skin.

H318 – Causes serious eye damage.

H315 – Causes skin irritation.

H411 – Toxic to aquatic life with long lasting effects.

EXPLANATION OF ABBREVIATIONS

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REFERENCES TO LITERATURE AND DATA SOURCES

Chemical Safety Assessment (CSA) has been prepared for the product. See Chemical Safety Assessment (CSA) for sources.

CHANGES DURING REVISION/REWORK

1st edition (19/02/2024): Basic document.

OTHER

This information is supplementary to other information. The user must decide for themselves whether the information is sufficient. Responsible for product safety and facts is EffiTab International AB. The safety data sheet has been prepared with the assistance of Amasis Konsult AB, Solna.