

Product:

EKALAND™ TMTM C

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SDS No.: 100039-100 (Version 5.0)

Date 17.06.2025 (Cancel and replace : 18.01.2021)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Identification of the mixture: EKALAND™ TMTM C

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the Substance/Mixture :**

Curing chemical

1.3. Details of the supplier of the safety data sheet

Supplier	MLPC International 209, Avenue Charles Despiau F-40370 RION-DES-LANDES, FRANCE Telephone: + 33 (0) 5 58 57 02 00 E-mail address: http://www.mlpc-intl.com fds@mlpc-intl.com
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E-mail address : Exposure scenario	reachsubstance@mlpc-intl.com
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1.4. Emergency telephone number

+ 33 1 49 00 77 77
European emergency phone number: 112
+1-703-741-5970 (CHEMTREC International emergency phone number)

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008):**

Oral: Acute toxicity, 4, H302
Inhalation: Acute toxicity, 4, H332
Skin sensitisation, 1, H317
Oral: Specific target organ toxicity - repeated exposure, 2, Liver, H373
Acute aquatic toxicity, 1, H400

Additional information:

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

2.2. Label elements**Label elements (REGULATION (EC) No 1272/2008):****Hazardous components which must be listed on the label:**

tetramethylthiuram monosulphide

Hazard
pictograms:

Signal word:

Warning**Hazard statements:**

H302 + H332 : Harmful if swallowed or if inhaled.
H317 : May cause an allergic skin reaction.
H341 : Suspected of causing genetic defects.
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

- P201 : Obtain special instructions before use.
 P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 : Wash skin thoroughly after handling.
 P273 : Avoid release to the environment.
 P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

- P391 : Collect spillage.

2.3. Other hazards : None.

Other:

Results of PBT and vPvB assessment :

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

Endocrine disrupting properties - Health :

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

Endocrine disrupting properties - Environment :

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.2. Mixtures**Chemical nature of the mixture¹:**

Mixture

Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :

Chemical name ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008	specific concentration limit, M-Factors, Acute toxicity estimate
Tetramethylthiuram monosulfide (01-2119980834-25) (N° ANNEX: 006-080-00-3)	202-605-7	97-74-5	90 - 100 %	Acute Tox.4 (Oral); H302 Acute Tox.4 (Inhalation); H332 Skin Sens.1; H317 Muta.2; H341 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor Acute = 1 M-Factor Chronic = 10

¹: See chapter 14 for Proper Shipping Name

²: See the text of the regulation for applicable exceptions or provisions -

SECTION 4: FIRST AID MEASURES
4.1. Description of necessary first-aid measures:**General advice:**

Take off immediately all contaminated clothing.

Inhalation:

Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
 In case of problems : Hospitalise.

Skin contact:

Wash off immediately with soap and plenty of water.
 If skin irritation occurs, seek medical advice/attention.

Eye contact:

Wash well-open eyes immediately, abundantly and thoroughly with water. Consult an ophthalmologist immediately.

Ingestion:

If swallowed, do not induce vomiting - seek medical advice.
 Hospitalise.

Protection of first-aiders:

In case of insufficient ventilation, wear suitable respiratory equipment.

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

Symptoms: More severe effects if alcohol is consumed.

More severe effects if alcohol is consumed.

Hazards: Harmful if swallowed. May cause an allergic skin reaction. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

Harmful if swallowed. May cause an allergic skin reaction. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed: No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry powder

Unsuitable extinguishing media: All other extinguishants

5.2. Special hazards arising from the substance or mixture:

Thermal decomposition gives : Temperature exceeding 280 °C:

Sulphur oxides, Nitrogen oxides (NOx)

5.3. Advice for firefighters:

Specific methods:

Remove all sources of ignition. Suppress gases, fumes and/or dust with water spray jet.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes and inhalation of dust.

6.2. Environmental precautions:

Do not let product enter drains. Do not contaminate surface water.

6.3. Methods and materials for containment and cleaning up:

Recovery:

Shovel or sweep up. Recover the product and place in a dry labelled container.

Elimination:

Destroy the product by incineration (in accordance with local and national regulations).

6.4. Reference to other sections: None.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:

Storage and handling precautions applicable to products: Dust forming. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Provide water supplies, ocular fountains and showers near the point of use.

Avoid dust formation. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. When transferring from one container to another apply earthing measures and use conductive hose material.

Safe handling advice:

In case of dust formation, wear a dust mask.

Hygiene measures:

General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Avoid breathing dust.

Prohibit contact with skin and inhalation of dust.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Keep in a well-ventilated place. Keep in a dry place. Store protected from moisture.

Incompatible products:

Strong acids Oxidizing agents

Packaging material:

Recommended: Paper bags, Big bags.

7.3. Specific end use(s): None.**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters:****Exposure Limit Values (dust)**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	03 2014	TWA	–	3	Respirable particles.
ACGIH (US)	03 2014	TWA	–	10	Inhalable particles.

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL): TETRAMETHYLTHIURAM MONOSULFIDE :

End Use	Inhalation	Ingestion	Skin contact
Workers	0,1646 mg/m3 (LT, SE) 93,77 mg/m3 (ST, SE)		0,2333 mg/kg bw/day (LT, SE)
Consumers	0,029 mg/m3 (LT, SE) 69,2 mg/m3 (ST, SE)	0,0083 mg/kg bw/day (LT, SE)	0,0833 mg/kg bw/day (LT, SE)

LE : Local effects, **SE** : Systemic effects, **LT** : Long term, **ST** : Short term

Predicted No Effect Concentration: TETRAMETHYLTHIURAM MONOSULFIDE :

Compartment:	Value:
Water	0,122 µg/l
Marine water	0,012 µg/l
Sewage treatment plant	10 mg/l
Fresh water sediment	0,0045 mg/kg bw
Marine sediment	0,00045 mg/kg bw
Soil	0,0008 mg/kg dw

8.2. Exposure controls:

General protective measures: Ensure sufficient air exchange and/or exhaust in work areas

Personal protective equipment:

Respiratory protection: Effective dust mask
Hand protection: Impervious gloves
Eye/face protection: Tightly fitting safety goggles
Skin and body protection: At the workplace : Protective suit.

Environmental exposure controls: See chapter 6

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Appearance:**

Physical state (20°C): solid
solid

Form: powder

Colour: yellow

Odour: slight

Odour Threshold: No data available.

Melting point/ range : 106 - 110 °C (OECD Test Guideline 102)

Boiling range : Decomposes before boiling.

Flammability:
Flammability (solid, gas): Non flammable product (Method A10: Flammability (solids))

Upper explosion limit : No data available.

Flash point: No data available
Not applicable

Auto-ignition temperature: No data available.

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Decomposition temperature:	approx. 243 °C (A2 Method (D. 92/69/ECC))
pH:	Concentration 1 %, Temperature 20 °C, pH 7,1
Viscosity, kinematic:	Not applicable
Water solubility:	308 mg/l at 25 °C (OECD Test Guideline 105)
Solubility in other solvents:	Soluble in: , Aromatic solvents
Partition coefficient: n-octanol/water:	TETRAMETHYLTHIURAM MONOSULFIDE : log Kow : 1,17 (OECD Test Guideline 107)
Vapour pressure:	< 0,02 Pa , at 25 °C (calculated)
Density:	1,38 g/cm ³ , at 20 °C Molten form
Relative vapour density:	No data available.
Particle characteristics:	
Particle size:	D10 : 19 µm powder D50 : 35 µm powder D90 : 60 µm powder

9.2. Other information:

Surface tension:	70,2 mN/m at 20 °C / 900 mg/l (OECD Test Guideline 115)
Bulk density:	Average 0,6 kg/m ³ , at 20 °C
pKA:	< 2 at 20 °C (OECD Test Guideline 112)
Molecular weight:	208,37 g/mol (Literature)
Explosive properties:	
Minimum ignition energy:	not determined
Explosivity:	Not explosive (A14 Method)
Oxidizing properties:	Not relevant (due to its chemical structure)

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability:

Product stable in the absence of moisture

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

10.5. Incompatible materials to avoid: No data available.

10.6. Hazardous decomposition products:

Thermal decomposition:

Decomposition temperature: approx. 243 °C
Thermal decomposition gives: , Nitrogen oxides (NOx)
Nitrosamine

SECTION 11: TOXICOLOGICAL INFORMATION

All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Inhalation: According to its composition : Harmful if inhaled.

TETRAMETHYLTHIURAM MONOSULFIDE :

5,63 mg/l (Method: Acute toxicity estimate), Inhalation of vapours due to thermal decomposition:, Risk of irritation of respiratory system, Toxic effects cannot be excluded

Ingestion: According to its composition : Harmful if swallowed. Use of alcoholic beverages when exposed to the product may result in adverse health effects (Antabuse effect)

TETRAMETHYLTHIURAM MONOSULFIDE :

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- In animals : LD50/Rat: 690 mg/kg (Method: OECD Test Guideline 401)
- Dermal:** **According to its composition, can be considered as Slightly or not harmful in contact with skin**
TETRAMETHYLTHIURAM MONOSULFIDE :
• In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 402), No specific toxic effects

Local effects (Corrosion / Irritation / Serious eye damage):

- Skin contact:** **According to its composition, can be considered as Non irritating to skin**
TETRAMETHYLTHIURAM MONOSULFIDE :
- Eye contact:** **According to its composition, can be considered as Not irritating to the eyes.**
TETRAMETHYLTHIURAM MONOSULFIDE :

Respiratory or skin sensitisation:

- Inhalation:** No data available.
- Skin contact:** **According to its composition : May cause an allergic skin reaction.**
TETRAMETHYLTHIURAM MONOSULFIDE :
• In man : Some cases of cutaneous sensitization reported
• In animals : Weak skin sensitizer (Method: Buehler Test, Guinea pig)

CMR effects :

- Mutagenicity:** **Results from in vitro and in vivo tests do not lead to considering the product as genotoxic**
In vitro
TETRAMETHYLTHIURAM MONOSULFIDE :
In vitro gene mutations test on mammalian cells: Inactive
In vivo
TETRAMETHYLTHIURAM MONOSULFIDE :
Chromosome aberration test in vivo: Inactive
In vivo mammalian alkaline comet assay: Active (Method: OECD Test Guideline 489)
- Carcinogenicity:** **Based on the available data, the substance is not suspected of having carcinogenic potential**
TETRAMETHYLTHIURAM MONOSULFIDE :

Reproductive toxicity:

- Fertility:** **Based on the available data, the substance is not suspected of having reprotoxic potential.**
TETRAMETHYLTHIURAM MONOSULFIDE :
• In animals : reproductive and developmental toxicity study: Absence of toxic effects on fertility

No observed adverse effect level (Fertility): 10 mg/kg bw/day
NOAEL (Developmental Toxicity): 5 mg/kg bw/day
(Method: OECD Test Guideline 422, Rat, Oral)
- Foetal development:** **Based on the available data, the substance is not suspected of having developmental toxicity potential.**
TETRAMETHYLTHIURAM MONOSULFIDE :

Specific target organ toxicity :

- Single exposure :** No data available.
- Repeated exposure:** **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.**
Exposure routes : Ingestion
Target Organs : Liver

TETRAMETHYLTHIURAM MONOSULFIDE :
• In animals : Oral: NOAEL= 5mg/kg bw/day (Method: OECD Test Guideline 422, Rat)

Aspiration hazard:

Not applicable

11.2. Information on other hazards:

- Endocrine disrupting properties:** **Based on the available information, it is not possible to conclude on the endocrine disruptor potential.**

Other information: Not relevant

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

According to available experimental data:

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.1. Toxicity :

Fish: **From its composition, it must be considered as: Toxic to fish.**

TETRAMETHYLTHIURAM MONOSULFIDE :
LC50, 96 h (Poecilia reticulata (guppy)) : 5,3 mg/l (Method: OECD Test Guideline 203)

Aquatic invertebrates: **From its composition, it must be considered as: Very toxic to daphnia.**

TETRAMETHYLTHIURAM MONOSULFIDE :
EC50, 48 h (Daphnia magna (Water flea)) : 2,9 mg/l (Method: OECD Test Guideline 202)

Aquatic plants: **From its composition, it must be considered as: Very toxic to algae.**

TETRAMETHYLTHIURAM MONOSULFIDE :
ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 0,32 mg/l (Method: OECD Test Guideline 201)

Microorganisms:

TETRAMETHYLTHIURAM MONOSULFIDE :
NOEC, 28 d (Activated sludge) : 100 mg/l (Method: OECD Test Guideline 301D)

THIRAM :
EC50, 3 h : 3,11 mg/l (Method: OECD Test Guideline 209, Respiration inhibition of activated sludge)

Aquatic toxicity / Long term toxicity:

Fish:

THIRAM :
NOEC, 33 d (Pimephales promelas) : 0,0046 mg/l (Method: OECD Test Guideline 210)

Aquatic invertebrates:

TETRAMETHYLTHIURAM MONOSULFIDE :
EC10, 21 d (Daphnia magna (Water flea)) : 0,006 mg/l (Method: OECD Test Guideline 211)

THIRAM :
NOEC, 21 d (Daphnia magna (Water flea)) : 0,020 mg/l (Method: OECD Test Guideline 211)

Aquatic plants:

TETRAMETHYLTHIURAM MONOSULFIDE :
ErC10, 72 h (Pseudokirchneriella subcapitata (microalgae)) : 0,14 mg/l (Method: OECD Test Guideline 201)

Non aquatic toxicity / Toxicity :

Toxicity to soil dwelling organisms:

THIRAM :
LC50, 14 d (Eisenia fetida) : = 540 mg/kg (Soil dw) (Method: OECD Test Guideline 207)
EC10, 56 d (Eisenia fetida (earthworms)) : 7,33 mg/kg (Soil dw) (Method: OECD Test Guideline 222)
NOEC, 28 d (Folsomia candida) : 52,75 mg/kg (Soil dw) (Method: OECD Test Guideline 232)
NOEC (Microorganisms) : 31,71 mg/kg (Soil dw) (Method: OECD Test Guideline 216)

12.2. Persistence and degradability :

Stability in water:

TETRAMETHYLTHIURAM MONOSULFIDE :
Half-life: 146 d at 25 °C and pH 4
Half-life: 184 d at 25 °C and pH 7
Half-life: 237 d at 25 °C and pH 9
Method: OECD Test Guideline 111

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Biodegradation (In water): All the products and/or components quoted in section 3 and/or analogue substances/metabolites are not readily biodegradable.

TETRAMETHYLTHIURAM MONOSULFIDE :
Not readily biodegradable.: 0 % after 28 d (Method: OECD Test Guideline 301 F)

12.3. Bioaccumulative potential :

Bioaccumulation: None of the product and /or component quoted in section 3 and/or analogue substance/metabolite is expected to bioaccumulate.

TETRAMETHYLTHIURAM MONOSULFIDE :
Partition coefficient: n-octanol/water: log Kow : 1,17 (Method: OECD Test Guideline 107)

12.4. Mobility in soil - Distribution among environmental compartments:

Vapor pressure: < 0,02 Pa, 25 °C, (Method: calculated)
Surface tension: 70,2 mN/m 20 °C /900 mg/l (Method: OECD Test Guideline 115)

12.5. Results of PBT and vPvB assessment :

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

12.6. Endocrine disrupting properties:

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

12.7. Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal of product: Destroy the product by incineration (in accordance with local and national regulations).

Disposal of packaging: Destroy packaging by incineration at an approved waste disposal site (in accordance with local and national regulations).

SECTION 14: TRANSPORT INFORMATION

Regulation	14.1. UN number	14.2.UN proper shipping name	14.3.Classes*	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM MONOSULFIDE)	9	9	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM MONOSULFIDE)	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM MONOSULFIDE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (Tetramethylthiuram monosulphide)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (Tetramethylthiuram monosulphide)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM MONOSULFIDE)	9	9	III	Marine pollutant	EmS Number: F-A, S-F Mark: MP

*Description: 14.3. Transport hazard class(es)
14.4. Packing group

14.7. Maritime transport in bulk according to IMO instruments: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

Listed in:

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended: tetramethylthiuram monosulphide

15.2. Chemical safety assessment: None.

INVENTORIES:

European union/EEA : In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.

TSCA (USA) : The components of this product are all on the TSCA Inventory
 DSL/NDSL (CA) : All components of this product are on the Canadian DSL
 IECSC (CN) : All components of this product are listed or exempted
 ENCS (JP) : All components of this product are listed or exempted
 ISHL (JP) : All components of this product are listed or exempted
 KECI (KR) : All components of this product are listed or exempted
 PICCS (PH) : All components of this product are listed or exempted
 NZIOC (NZ) : All components of this product are listed or exempted
 AIIC (AU) : All components of this product are listed or exempted
 TCSI (TV) : All components of this product are listed or exempted

SECTION 16: OTHER INFORMATION

Full text of H, EUH-phrases referred to under sections 2 and 3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
1-16	General update of Safety Data Sheet.	Revisions
	one or more exposure scenario have been changed: see dates and versions	Revisions

Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)
 LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
 bw : Body weight
 food : oral feed
 dw : Dry weight
 vPvB : very Persistent and very Bioaccumulative
 PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).

