

MATERIAL SAFETY DATA SHEET

Product Name: DOAC-REMOVE

Product Reference: 5D-82410A DOAC-REMOVE, 20 tablets

5D-82410B DOAC-REMOVE, 50 tablets

5D-82410C DOAC-REMOVE, 250 tablets

MATERIAL SAFETY DATA SHEET

ENGLISH

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product identifier

| Name | Product number |
|--------------------------|----------------|
| DOAC-REMOVE, 20 tablets | 5D-82410A |
| DOAC-REMOVE, 50 tablets | 5D-82410B |
| DOAC-REMOVE, 250 tablets | 5D-82410C |

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

For *in-vitro* Use Only.

1.3 Details of the manufacturer and supplier of the safety data sheet

5-Diagnostics AG
Heuberg 7
CH-4051 Basel
Switzerland
Tel: +41-61-588 0784
Fax: +41-61-588 0786
E-Mail address: info@5-diagnostics.com

1.4 Emergency telephone number

Tel: +41-61-588 0784 (during normal business hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

2.2 Label elements

The product is not subject to labelling requirements in accordance with current EC guidelines and corresponding national legislation.

2.3 Other hazards

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Activated Carbon; EC no.: 931-328-0; weight %: <50%; REACH registration no. 01-2119488894-16; other classifications: not applicable.

3.2 Other information

Do not inject or ingest.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

If symptoms develop or when in doubt, seek medical attention. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

After inhalation

IF INHALED: Remove victim to fresh air. Keep warm and at rest. If irritation occurs, seek medical attention. If necessary, restore normal breathing through standard first aid measures.

After skin contact

SKIN CONTACT: Wash off immediately with plenty of soap and water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin reaction occurs, seek medical attention.

After eye contact

EYE CONTACT: Rinse immediately with plenty of water for at least 15 minutes holding the eyelids open. If possible, remove contact lenses. Continue to rinse. Seek medical attention preferably an ophthalmologist.

After ingestion

INGESTION: get immediately medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use foam, carbon dioxide (CO₂), dry chemical or water spray. Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas

Unsuitable extinguishing media

None

5.2 Special hazard arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

In the event of a fire: Wear protective equipment. Self-contained breathing apparatus. Do not breathe fire/explosion fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal protections, protective equipment and emergency procedures

Refer to protective measures listed in section 7 and 8. Avoid dust formation. Ensure adequate ventilation.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Do not place spilled material back in the original container. Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

For safe product handling, select and apply appropriate prevention and control measures that will reduce to a minimum the intrinsic risk hazard. Design and operate processes, insofar as the state of technology permits, in such a way that dangerous substances may not be released / contact with the skin can be ruled out.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands and skin before breaks and after work. Do not inhale vapors. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a dry, cool, well-ventilated place. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product.

Incompatible materials

Strong oxidizing agents. Strong acids.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. Per Article 14.4 of the REACH Regulation no exposure scenario has been developed as the substance is not hazardous.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

No parameters available for monitoring.

Biological limit values

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Any measure taken shall comply with good hygiene practice.

Personal protective equipment

During product handling, wear appropriate protective clothing in compliance with the applicable rules.

Respiratory protection

Approved respirator may be necessary if local exhaust ventilation is not adequate.

Hand/skin protection

During handling, wear appropriate protective gloves. Prior to use, check in any case suitability of protective glove for the specific workplace conditions. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Protective gloves must be tested and approved under EN374 standard. Replace protective gloves immediately when they become worn and damaged.

Eye / face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other

No data available

Environmental exposure controls

Prevent further spillage/release of material if safe.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Property | 5D-82410A/B/C |
|---------------------------|---------------------|
| Appearance | Solid Tablet/Pellet |
| Color | Black |
| Odour | Odorless |
| pH value | NA |
| Boiling point | NA |
| Melting point | NA |
| Decomposition point | NA |
| Flash point | NA |
| Auto-ignition temperature | NA |
| Oxidising properties | NA |
| Explosive properties | NA |

| | |
|---|----|
| Flammability | NA |
| Lower flammability or explosive limits | NA |
| Upper flammability or explosive limits | NA |
| Vapour pressure | NA |
| Vapour density | NA |
| Evaporation rate | NA |
| Relative density | NA |
| Solubility in water | NA |
| Solubility | NA |
| Partition coefficient: n-octano/water | NA |
| Viscosity | NA |
| Other information | NA |

NA: Not Applicable

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known if handled in compliance with applicable provisions/under normal conditions of use.

10.2 Chemical stability

The preparation is stable if handled and stored as recommended under section 7.

10.3 Possibility of hazardous reactions

None if used for the intended purpose.

10.4 Conditions to avoid

None if used for the intended purpose.

10.5 Incompatible materials

Strong oxidizing agents, strong acids

10.6 Hazardous decomposition products

None if used for the intended purpose.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Property | |
|------------------------------|----------------------|
| | 5D-82410A/B/C |
| Acute oral toxicity | ND |
| Acute dermal toxicity | ND |

| | |
|---|----------------------------------|
| Acute inhalational toxicity | Not classified |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/eye irritation | Not classified |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Reproductive toxicity | Not classified |
| Carcinogenicity | Not classified |
| Specific target organ toxicity : - Single exposure - Repeated exposure | Not classified |
| Aspiration hazard | No aspiration hazard is expected |

No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| Toxicity | 5D-82410A/B/C |
|--|---------------|
| Fish toxicity - Acute - Chronic | Non toxic |
| Daphnia toxicity - Acute - Chronic | Non toxic |
| Algae toxicity - Acute - Chronic | ND |
| Bacteria toxicity - Acute - Chronic | ND |

ND: No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio-accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| Assessment | 5D-82410A/B/C |
|------------------------|--|
| PBT assessment | Does not fulfill the criteria for PBT |
| vPvB assessment | Does not fulfill the criteria for vPvB |

12.6 Other adverse effects

No data available.

SECTION 13: WASTE DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of waste in compliance with national rules and consultation with environmental services. The waste code is established in consultation with your regional waste disposer.

Packaging

Empty properly packaging. Completely emptied packaging or practically empty packaging containing residues shall be disposed of properly in consultation with your regional waste disposer.

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

SECTION 15: REGULATORY INFORMATION

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

EU regulations

This MSDS file is comply to the requirements described on the Regulation (EC) No 1907/2006 (REACH) and 1272/2008 (CLP).

15.2 Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

16.1 Key literature references and sources for data

Regulation EC 1907/2006(REACH), Regulation (EC) 1272/2008 (CLP) its current version.

Regulations concerning the International Carriage of Dangerous Goods according to ADR, RID, IMDG, IATA in their current version.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section of this SDS.

The above information is based on our present-day knowledge and experience. The information provided above is not a technical specification and does not guarantee any properties or performance and does not represent any contractual relationship.

5-Diagnostics and its appointed agents/distributors or OEM contractors shall not be held liable for any damage resulting from or from contact with the products included in the kit.

16.2 Abbreviations and acronyms

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

CLP: European Regulation on Classification, Labelling and Packaging of Substances and Mixtures

CMR : cancerogen mutagen reprotoxic

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods code

NIOSH: National Institute for Occupational Safety and Health (NIOSH) in the U.S.

PBT: Persistent, Bioaccumulative, Toxic

ReaCH: European Union Regulation on Registration, Evaluation, Authorization and restriction of CHEMicals

RID: International Rule for Transport of Dangerous Substances by Rail

vPvB: very Persistent, very Bioaccumulative