

# SAFETY DATA SHEET

# TITAB PAC AB

In accordance with 1907/2006 annex II and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Revision date 2021-12-29

Replaces SDS issued 2021-09-07

Version number 6.0

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

### 1.1. Product identifier

Trade name	Bio Tändvätska
UFI:	7M00-V0R9-400X-7J9N
Other names or synonyms	Bio Lighter fluid

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

Identified uses	Ignition fluid
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### 1.3. Details of the supplier of the safety data sheet

Company	Titab Pac AB Moa Martinsons gata 8 60378 Norrköping Sweden
Telephone	+46-11 17 12 50
E-mail	info@titabpac.se
Website	www.titabpac.se

### 1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Asp. tox. 1, H304

(See section 16)

### 2.2. Label elements

Hazard pictogram



Signal word	Danger
Hazard statement	
H304	May be fatal if swallowed and enters airways
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331	Do NOT induce vomiting
P405	Store locked up
P501	Dispose of contents and container to authorised waste disposal facility

### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains: ALKANES, C10-20 -BRANCHED AND LINEAR, HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB  
Just a sip of grill lighter may lead to life threatening lung damage.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>ALKANES, C10-20 -BRANCHED AND LINEAR</b>		
CAS No: 928771-01-1 EC No: 618-882-6 REACH: 01-2119450077-42	Asp. tox. 1; EUH066, H304	55 %
<b>HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, &lt; 2% AROMATICS</b>		
EC No: 918-481-9	Asp. tox. 1; EUH066, H304	45 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms occur, call a doctor/physician.  
Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

#### Upon breathing in

Bring the injured person out into fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult let trained personnel administer oxygen. Let the injured person rest in a warm place with fresh air and seek medical advice immediately.

#### Upon eye contact

For safety reasons, flush eyes with water; If symptoms occur, seek medical advice.

#### Upon skin contact

Remove contaminated clothing.  
Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

#### Upon breathing in

May be fatal if swallowed and enters airways.

#### Upon skin contact

Can cause dry or cracked skin during prolonged/frequently repeated contact.

#### Upon ingestion

Indisposition and vomiting if swallowed.  
Risk of aspiration, resulting in chemical pneumonitis.

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

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.  
Symptoms of poisoning may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with carbon dioxide, sand or powder.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

### 5.2. Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Emits flammable vapours which may form an explosive mixture with air.

### 5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use proper breathing apparatus.

Vapors are heavier than air and may spread along floors.

Evacuate all not-authorized personnel.

Wear full protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

Switch off equipment which has an exposed flame, glows, or has a heat source of some other kind.

Do not inhale vapours and avoid contact with skin, eyes and clothes when cleaning up the spillage.

Ensure good ventilation.

Keep unauthorized and unprotected people at a safe distance.

Note that there is a risk of slipping if product is leaking/spilling.

### 6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

### 6.3. Methods and material for containment and cleaning up

Minor spillage should be wiped away or flushed away with water. Large quantities should be collected for incineration in accordance with the local regulations.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Take the necessary preventive and protective measures for safe handling.

Implement appropriate engineering controls if necessary, see Section 8.

Use recommended safety equipment, see section 8.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is handled.

Avoid spillage and contact with eyes and skin.

Remove contaminated clothing.

Wash contaminated clothing before reuse.

Wash your hands after using the product.

Keep away from incompatible products.

### 7.2. Conditions for safe storage, including any incompatibilities

Take the necessary preventive and protective measures for safe storage.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.

Keep out of reach for children.

Store tightly, in original packaging.

Store in a well-ventilated and locked place.

Do not store close to incompatible materials (see section 10.5).

### 7.3. Specific end use(s)

See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

#### DNEL

#### ALKANES, C10-20 -BRANCHED AND LINEAR

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	94 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	42 mg/kg bw/d
Worker	Chronic Systemic	Inhalation	147 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Dermal	18 mg/kg bw/d

#### PNEC

No data available.

### 8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

#### 8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.

#### Eye/face protection

Use safety glasses with a strong seal if there is a risk of splashing.

#### Skin protection

Use suitable protective clothing.

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.

Based on the chemical properties of the product, the following glove materials are recommended (EN 374):.

– Nitrile rubber.

#### Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.

The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

Based on the physical and chemical properties of the product, the following filter type(s) and/or filter combination(s) are recommended:.

– A.

#### 8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(a) Physical state	liquid
	Form: liquid
(b) Colour	Clear
(c) Odour	weak smell
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	>61 °C
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	When supplied, pH is: 6.5
(l) Kinematic viscosity	Not indicated
(m) Solubility	Solubility in water: Insoluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	0.76 - 0.79 g/cm <sup>3</sup>
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not indicated

#### 9.2.2. Other safety characteristics

Not indicated

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Reacts with oxidising agents.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

### 10.5. Incompatible materials

Avoid contact with oxidizers.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

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

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

If vomiting there is a risk of the product entering the lungs, which subsequently may cause chemical lung inflammation.

#### Acute toxicity

The product is not classified as acutely toxic.

#### ALKANES, C10-20 -BRANCHED AND LINEAR

LD50 rat 24h: > 2000 mg/kg Dermally

LD50 rat 24h: > 2000 mg/kg Orally

## **HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**

LD50 rat 24h: > 3000 mg/kg Dermal

LC50 rat 4h: > 5000 mg/l Inhalation

LD50 rat 24h: > 5000 mg/kg Orally

### **Skin corrosion/irritation**

Can cause dry or cracked skin during prolonged/frequently repeated contact.

The criteria for classification cannot be considered fulfilled based on available data.

### **Serious eye damage/irritation**

The product is not classified as irritant to the eyes.

### **Respiratory or skin sensitisation**

The product is not classified as sensitising.

### **Germ cell mutagenicity**

The product is not classified as mutagen.

### **Carcinogenicity**

The product is not classified as carcinogenic.

### **Reproductive toxicity**

The product is not classified as a reproductive toxicant.

### **STOT-single exposure**

The product is not classified for specific organ toxicity after single exposure.

### **STOT-repeated exposure**

The product is not classified for specific organ toxicity after repeated exposure.

### **Aspiration hazard**

The product may be fatal if swallowed and enters airways.

Monitor aspiration risk if vomiting occurs.

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

No information is available.

### **11.2.2. Other information**

Not indicated.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

The product is not to be labelled as an environmental hazard. However, it is not inconceivable that large emissions, or repeated small emissions, can have a harmful effect on the environment.

Prevent release on land, in water and drains.

## **ALKANES, C10-20 -BRANCHED AND LINEAR**

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: > 1000 mg/L

LC50 Freshwater water flea (*Daphnia magna*) 48h: > 100 mg/L

NOEC Freshwater water flea (*Daphnia magna*) 21d: > 1 mg/L

EC50 Algae (*Scenedesmus subspicatus*) 96h: > 100 mg/L

LOEC Freshwater water flea (*Daphnia magna*) 21d: > 3.2 mg/L

NOEC Sediment organisms 10d: 373 mg/kg

LOEC Sediment organisms 10d: 1165 mg/kg

LC50 Sediment organisms 10d: 1200 mg/kg

EC50 Micro-organisms (wastewater sludge) 30m: > 1000 mg/L

EC50 Micro-organisms (wastewater sludge) 3h: > 1000 mg/L

## **HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS**

EL0 Freshwater water flea (*Daphnia magna*) 48h: 1000 mg/l

EC50 Algae (*Pseudokirchneriella subcapitata*) 72h: 1000 mg/L

EC50 Algae (*Pseudokirchneriella subcapitata*) 96h: 1000 mg/L

LL50 Fish 24h: > 1000 mg/l

LL0 Fish 96h: 1000 mg/l

EL50 Freshwater water flea (*Daphnia magna*) 48h: > 1000 mg/l

EL50 Algae 72h: > 1000 mg/l

### **12.2. Persistence and degradability**

The product degrades easily in the natural environment.

### **12.3. Bioaccumulative potential**

This product or some of its ingredients accumulate in nature.

### **12.4. Mobility in soil**

Readily absorbed into soil.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### **12.6. Endocrine disrupting properties**

No information is available.

### **12.7. Other adverse effects**

Films formed on water may affect oxygen transport and can damage organisms.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Waste handling of the product**

Avoid discharge into sewers.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

## **SECTION 14: Transport information**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### **14.1. UN number or ID number**

Not classified as dangerous goods

### **14.2. UN proper shipping name**

Not applicable

### **14.3. Transport hazard class(es)**

Not applicable

### **14.4. Packing group**

Not applicable

### **14.5. Environmental hazards**

Not applicable

### **14.6. Special precautions for user**

Not applicable

### **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

### **14.8 Other transport information**

Not applicable

## **SECTION 15: Regulatory information**

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

Not indicated.

### **15.2. Chemical safety assessment**

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

Earlier versions

2021-09-07 Changes in section(s) 1, 8.

### 16b. Legend to abbreviations and acronyms used in the safety data sheet Full texts for Hazard Class and Category Code mentioned in section 3

Asp. tox. 1 Aspiration hazard, Hazard Category 1 - Asp. tox. 1, H304 - May be fatal if swallowed and enters airways

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2021-12-29.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

### 16e. List of relevant hazard statements and/or precautionary statements Full texts for hazard statements mentioned in section 3

EUH066 Repeated exposure may cause skin dryness or cracking

H304 May be fatal if swallowed and enters airways

### 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment Warning for misuse

Not indicated.

#### Other relevant information

Not indicated

#### Editorial information



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)