

# SAFETY DATA SHEET

# TITAB PAC AB

In accordance with 1907/2006 annex II 2015/830 and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)  
Revision date 2019-05-24  
Replaces issued SDS 2018-04-10  
Version number 3.0

## 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

### 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 conny.wicksell@titabpac.se  
Website www.titabpac.se

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aspiration toxicity (Category 1), H304

### 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 C11-C16, N-ALKANES, ISOALKANES, <2%

### 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	45 - 55 %
<b>HYDROCARBONS C11-C16, N-ALKANES, ISOALKANES, &lt;2%</b>		
EC No: 942-085-5 REACH: 01-2120085325-55	Asp Tox 1; EUH066, H304	45 - 55 %

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

Put the person in the three-quarters prone recovery position if he or she is unconscious or groggy.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

In case of concern, or if symptoms persist, call a doctor/physician.

#### Upon breathing in

Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical advice.

#### Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

#### Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms 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.

Avoid that stomach content enters the lungs if vomiting occurs by holding the head low.

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

#### Upon breathing in

Risk of aspiration, resulting in chemical pneumonitis.

#### Upon skin contact

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

#### Upon ingestion

Risk of aspiration, resulting in chemical pneumonitis.

Note that the symptoms may be delayed.

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

Symptomatic treatment.

When contacting a physician, take this SDS with you.

## SECTION 5: Fire-fighting 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

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

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.

### 5.3. Advice for fire-fighters

Evacuate all not-authorized personnel.

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

In case of fire use a respirator mask.

Wear full protective clothing.

Vapors are heavier than air and may spread along floors.

## SECTION 6: Accidental release measures

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

Keep unauthorized and unprotected people at a safe distance.

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.

Use recommended safety equipment, see section 8.

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

Ensure good ventilation.

### 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

Do not inhale fumes and avoid contact with skin and eyes.

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.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Avoid open fire, hot items, sparks or other ignition sources.

Remove contaminated clothing.

Wash your hands after using the product.

Handle and open container with care.

Take precautionary measures against static discharge.

The usual precautions for handling chemicals should be observed.

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

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

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.

Always use sealed and visibly labeled packages.

Store in a well-ventilated space.

Store in dry and cool area.

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

### 7.3. Specific end uses

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

To prevent occupational risks the health hazards for this product or any of the ingredients should be taken into account (see sections 2, 3 and 11), according to EU Directive 89/391 and 98/24 and national jurisdiction for occupational risks.

#### 8.2.1. Appropriate engineering controls

Handle in premises with good ventilation.

#### Eye/face protection

Use protective glasses with tight seals according to standard EN166.

#### Skin protection

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.

Use protective gloves made of nitrile rubber.

Wear suitable protective clothing when necessary.

#### Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.

Breathing apparatus with combined gas/particle filter (A/P2).

#### 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) Appearance	Form: liquid. Colour: colourless.
b) Odour	weak smell
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	>61 °C
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	0.76 - 0.79 g/cm <sup>3</sup>
n) Solubility	Solubility in water: Insoluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### 9.2. Other information

No data available

## 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 toxicological effects

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

#### Respiratory or skin sensitisation

Not 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**

No known hazards for occasional exposure.

### **STOT-repeated exposure**

No known hazards for repeated exposure.

### **Aspiration hazard**

Ingestion of the product may lead to aspiration, and as a result chemical pneumonia.

Monitor aspiration risk if vomiting occurs.

The product may be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

The product is not to be labelled as a 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

### **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**

The product is not soluble in water.

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. 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**

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

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.

Observe local regulations.

Avoid discharge into sewers.

See also national waste regulations.

## 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

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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

2018-04-10 Changes in section(s) 1, 2, 11.

### 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 toxicity (Category 1)

#### **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 2019-05-24.

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
- 2015/830 COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- 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
- 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

#### **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**

This product can cause harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

**Other relevant information**

Not indicated

**Editorial information**



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