

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

1.1 Product identifier

Trade name: PENETRATING OIL

Article number: TB6205

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

Identified uses: Lubricant.

**Uses advised against:** Use only for intended applications.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TYGRIS Industrial

Unit 31, Kyle Road Industrial Estate

Irvine Ayrshire KA12 8LE

Tel +44 (0) 1294 311 066

Email technical@tygrisindustrial.com

Further information

obtainable from: Technical Department

1.4 Emergency telephone

**number:** Tel +44 (0) 1294 311 066

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

**Physical hazards:** Flam. Liq. 3 - H226

**Health hazards:** Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H336 Asp. Tox. 1 - H304

**Environmental hazards:** Aquatic Chronic 2 - H411

**Notes** 

#### 2.2. Label elements

### Hazard pictograms:









Signal word:

Danger

**Hazard statements:** H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.

## **SAFETY DATA SHEET**



## PENETRATING OIL TB6205

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

## **Contains**

Kerosene, Oils, pine

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic <3%

30-60%

DINISO

Classification

Not Classified







Kerosene 30-60%

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

Oils, pine 1-5%

CAS number: 8002-09-3 EC number: 692-006-0

Classification

Flam. Liq. 3 - H226 Skin

Irrit. 2 - H315

Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position

and ensure breathing can take place.

**Ingestion** Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the

affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist. Do not induce vomiting. If vomiting occurs, the head should be

kept low so that vomit does not enter the lungs. Get medical attention immediately.

Skin contact It is important to remove the substance from the skin immediately. In the event of any

sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are

severe or persist after washing.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical

attention if any discomfort continues.

**Protection of first aiders:** First aid personnel should wear appropriate protective equipment during any rescue.







**Inhalation** A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic

effect.

**Ingestion** May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

**Skin contact** May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to

skin

Eye contact No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctor Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

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

water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards: Containers can burst violently or explode when heated, due to excessive pressure build-up.

Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or

explosion hazard.

**Hazardous combustion** 

products:

Thermal decomposition or combustion products may include the following substances: Harmful

gases or vapours.

## 5.3. Advice for firefighters

Protective actions during firefighting:

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate

authorities.

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.







#### **SECTION 6: Accidental release measures**

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

#### **Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** 

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

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

#### Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.





#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in

Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not

reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash

contaminated clothing before reuse.

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

Storage precautions Store away from incompatible materials (see Section 10). Store locked up. Keep away from

oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from

damage.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## Occupational exposure limits

## Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ mist

Oils, pine

Long-term exposure limit (8-hour TWA): WEL 560 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

Kerosene (CAS: 8008-20-6)

**DNEL** Consumer - Oral; : 18.8 mg/kg/day

Fatty acids, C16-18 and C18-unsatd., Me esters (CAS: 67762-38-3)

**DNEL** Workers - Dermal; Long term systemic effects: 10 mg/kg/day

Workers - Inhalation; Long term systemic effects: 6.96 mg/m<sup>3</sup>

PNEC - Fresh water; 2.504 mg/

marine water; 0.2504 mg/Intermittent release; 25.04 mg/

- STP; 520 mg/







#### 8.2. Exposure controls

#### Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance Coloured liquid.

Colour Green.
Odour Pine.

Odour No information available.

threshold pH No information available.

**Melting point** No information available.

**Initial boiling point and**No information available.

range Flash point 43°C / 109°F Method: Closed cup.

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability

or explosive limits

Lower flammable/explosive limit: 0.7 % Upper flammable/explosive limit: 5.6 %

Other flammability

Vapour pressure

Vapour density

No information available.

No information available.

Relative density ~ 0.830 @ 20°C

**Bulk density** No information available.

Solubility(ies) Immiscible with water.

Partition coefficient No information available.

**Auto-ignition temperature** No information available.

**Decomposition** No information available.

**Temperature Viscosity** No information available.

**Explosive properties** No information available.

Explosive under the influence of a flame

Flammable liquid

Oxidising properties Does not meet the criteria for classification as oxidising.

Comments Information declared as "Not available" or "Not applicable" is not considered to be relevant to

the implementation of the proper control measures.

9.2. Other information

Other information No information required.







## **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode

when heated, due to excessive pressure build-up. Static electricity and formation of sparks

must be prevented.

10.5. Incompatible materials

Materials to avoid Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products

**Hazardous** Does not decompose when used and stored as recommended. Thermal decomposition or

**decomposition products** combustion products may include the following substances: Harmful gases or vapours.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity -

inhalation Notes Based on available data the classification criteria are not met.

(inhalation LC<sub>50</sub>)

Skin corrosion/irritation Irritating.

**Animal data** 

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.







Respiratory sensitisation

**Respiratory sensitisation**Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** May cause skin sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity**None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration** 

hazard Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the

**Aspiration** result if vomited material containing solvents reaches the lungs.

hazard

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic

effect.

**Ingestion** May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

**Skin contact** May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to

skin.

**Eye contact** No specific symptoms known.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs Central nervous system

**Medical considerations** Skin disorders and allergies.





## **SECTION 12: Ecological information**

12.1. Toxicity

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

12.4. Mobility in soil

**Mobility** No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or

recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some

product residues and hence be potentially hazardous.

**Disposal methods**Do not empty into drains. Dispose of surplus products and those that cannot be recycled via

a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling

is not feasible.







## **SECTION 14: Transport information**

**General** For limited quantity packaging/limited load information, consult the relevant modal

documentation using the data shown in this section.

14.1. UN number

**UN No. (ADR/RID)** 1993

**UN No. (IMDG)** 1993

UN No. (ICAO) 1993

**UN No. (ADN)** 1993

14.2. UN proper shipping name

Proper shipping FLAMMABLE LIQUID, N.O.S. (CONTAINS Kerosene, Oils, pine)

name (ADR/RID)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS Kerosene, Oils, pine)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS Kerosene, Oils, pine)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS Kerosene, Oils, pine)

14.3. Transport hazard

class(es) ADR/RID class

ADR/RID classification F1

code ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

**Transport labels** 



## 14.4. Packing group

ADR/RID packing group

IMDG packing group

ICAO packing group

ADN packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine



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### 14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**EmS** F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification

30

Number (ADR/RID)

Tunnel restriction code (D/E)

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according

Not applicable.

to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

#### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.



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## PENETRATING OIL TB6205

#### **SECTION 16: Other information**

Abbreviations and acronyms used in the safety data sheet ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC50: Lethal Concentration to 50 % of a test population.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC50: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Flam. Liq. = Flammable liquid Asp. Tox. = Aspiration hazard Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation

STOT SE = Specific target organ toxicity-single exposure

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Asp. Tox. 1 - H304: STOT SE 3 - H336: Skin Irrit. 2 - H315: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 2 - H411: : Calculation method. Flam. Liq. 3 - H226: : Expert

Classification procedures according to SI 2019 No.

judgement.

24/03/2022

720

Only trained personnel should use this material.

Training advice

Revision date 4

Revision 07/04/2021

Supersedes date

5599

SDS number H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

**Hazard statements in full** H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.