## SAFETY DATA SHEET



**Iloform TDN 81** 

### Section 1. Chemical product and company identification

**GHS product identifier** Iloform TDN 81 **Product code** 450946-DE18

**SDS no.** 450946

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

Product use Metalworking fluid - neat.

For specific application advice see appropriate Technical Data Sheet or consult our

company representative.

Supplier BP Europa SE

Industrial Lubricants & Services

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**EMERGENCY TELEPHONE** 

**NUMBER** 

Carechem: +44 (0) 1235 239 670 (24/7)

### Section 2. Hazards identification

Classification of the REPRODUCTIVE TOXICITY - Effects on or via lactation substance or mixture SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

**GHS label elements** 

**Hazard pictograms** 



Signal word Warning

**Hazard statements** H362 - May cause harm to breast-fed children.

H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention** P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P263 - Avoid contact during pregnancy and while nursing. P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

Response P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical attention.

Storage Not applicable.

**Disposal** P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

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### Section 2. Hazards identification

Other hazards which do not

Defatting to the skin.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Chlorinated paraffins and additives.

Ingredient name	%	CAS number
Alkanes, C14-17, chloro	≥75 - ≤90	85535-85-9
Distillates (petroleum), hydrotreated heavy paraffinic	≤5	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤5	64742-65-0
2,6-ditert-butyl-p-cresol	≤0.3	128-37-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse

health effects persist or are severe.

**Skin contact** Wash skin thoroughly with soap and water or use recognised skin cleanser.

Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Check for and remove any contact lenses. Get medical attention.

#### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments** No specific treatment.

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It

tion of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

io extiligationing

Use foam or all-purpose dry chemical to extinguish.

**Unsuitable extinguishing** 

media

media

Do not use water jet.

# Specific hazards arising from the chemical

Swarf fires - Neat metal working oils may fume, thermally decompose or ignite if they come into contact with red hot swarf. To minimise the generation of red hot swarf ensure that a sufficient flow of oil is correctly directed to the cutting edge of the tool to flood it throughout cutting operations. As an additional precaution swarf should be regularly cleared from the immediate area to prevent the risk of fire. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure

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### Section 5. Firefighting measures

increase will occur and the container may burst. This material is very toxic to

aquatic life with long lasting effects.

Hazardous thermal decomposition products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Section 6. Accidental release measures

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

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Contact emergency personnel.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilt material and runoff with soil and surface waterways. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The

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### Section 7. Handling and storage

presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid, as can bacteria, and as a result may induce allergic and other skin reactions, especially if personal hygiene is inadequate.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Alkanes, C14-17, chloro	Ministry of Health and Social  Development MAC (Russian Federation).  STEL: 5 mg/m³ 15 minutes. Issued/Revised: 6/2003 Form: Aerosol

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

# Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

# **Environmental exposure** controls

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.

#### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety glasses with side shields.

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### Section 8. Exposure controls/personal protection

#### **Skin protection**

Hand protection Wear protective gloves if prolonged or repeated contact is likely. Wear chemical

resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the

working conditions.

**Body protection** Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist

before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons

and/or impervious chemical suits and boots will be required.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state Liquid.

Colour Yellow. [Light]
Odour Not available.
Odour threshold Not available.
pH Not applicable.
Melting point Not available.
Boiling point, initial boiling Not available.

point, and boiling range

Flash point Open cup: >200°C (>392°F) [Cleveland]

**Evaporation rate** Not available.

Flammability Not applicable. Based on - Physical state

Lower and upper explosion limit/flammability limit

**Vapour pressure** 

Not available.

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Alkanes, C14-17, chloro	0	0				
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<0.08	<0.011	ASTM D 5191			

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### Section 9. Physical and chemical properties

**Relative vapour density**Not available. **Relative density**Not available.

**Density** >1000 kg/m³ (>1 g/cm³) at 15°C

Solubility insoluble in water.

Partition coefficient: n- Not applicable.

octanol/water

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Kinematic: 142.3 mm<sup>2</sup>/s (142.3 cSt) at 40°C

**Particle characteristics** 

Median particle size Not applicable.

### Section 10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not

occur.

Conditions to avoid High temperatures

**Incompatible materials** Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Aspiration hazard**

Name	Result
Distillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low

vapour pressure.

**Skin contact** Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**No specific data.
Inhalation
No specific data.

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### **Section 11. Toxicological information**

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation

of the respiratory tract.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

#### Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.

**Developmental effects** May cause harm to breast-fed children.

**Fertility effects** No known significant effects or critical hazards.

### **Section 12. Ecological information**

**Environmental effects** 

Water polluting material. May be harmful to the environment if released in large quantities. This material is very toxic to aquatic life with long lasting effects.

#### Persistence and degradability

Not expected to be rapidly degradable.

#### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

**Mobility** Liquid. insoluble in water.

Other adverse effects No known significant effects or critical hazards.

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### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14. Transport information**

	IMDG	IATA
UN number	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s Marine pollutant (Alkanes, C14-17, chloro)	Environmentally hazardous substance, liquid, n.o.s. (Alkanes, C14-17, chloro)
Transport hazard class(es)	9	9
Packing group	III	III
Environmental hazards	Yes.	Yes.
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Emergency schedules</b> F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user Not available.

### Section 15. Regulatory information

#### Regulation according to other foreign laws

**REACH Status**The company, as identified in Section 1, sells this product in the EU in compliance

with the current requirements of REACH.

United States inventory

(TSCA 8b)

At least one component is not listed.

Australia inventory (AIIC) All components are listed or exempted.

Canada inventory All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

All components are listed or exempted.

All components are listed or exempted.

**Korea inventory (KECI)**All components are listed or exempted. **Philippines inventory**All components are listed or exempted.

(PICCS)

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### Section 15. Regulatory information

Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted.

### Section 16. Other information

**History** 

Date of printing 11/2/2021

Date of issue/Date of 11/2/2021

revision

Date of previous issue No previous validation

Version

Prepared by Product Stewardship

**Key to abbreviations**ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulation [Regulation (EC) No. 1907/2006]

UN = United Nations

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0,

72623-87-1

References Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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