

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 1 of 10

#### 1. Identification

##### Product identifier

CONOSTAN Flash Point Standard, (D93-81°C)

Substance name: dodecane

CAS No: 112-40-3

##### Recommended use of the chemical and restrictions on use

###### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

###### Uses advised against

Do not use for private purposes (household).

##### Details of the supplier of the safety data sheet

###### Details of the supplier of the safety data sheet

Company name: AnalytiChem Services, Unipessoal, Lda

Street: Rua de Júlio Dinis 676 7º

Place: P-4050-320 Porto

Telephone: +351 226002917

E-mail: info@analytichem.com

Contact person: SDS service department

E-mail: SDS@analytichem.com

Internet: www.analytichem.com

Responsible Department: SDS service department

###### Supplier or manufacturer details

Company name: AnalytiChem Canada Inc.

Québec, CANADA

Street: 21800 Clark Graham Ave

Place: CDN-H9X 4B6 Baie-D'Urfé

Telephone: +1 (800) 361-6820

Telefax: +1 (800) 253-5549

E-mail: info@analytichem.com

Contact person: SDS service department

E-mail: SDS@analytichem.com

Internet: www.analytichem.com

Responsible Department: AnalytiChem:

EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20

EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200

EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848

UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500

USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378

Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701

Australia: ORE Research &amp; Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

##### Emergency phone number:

+1 703-741-5970 (CHEMTREC)

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**CONOSTAN Flash Point Standard, (D93-81°C)**

Revision date: 08/20/2025

Product code: AC18.05933

Page 2 of 10

**Further Information**

No data available

**2. Hazard(s) identification**

**Classification of the chemical**

**29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 4

Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

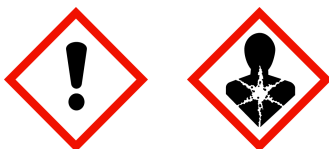
Aspiration hazard: Asp. Tox. 1

**Label elements**

**29 CFR Part 1910.1200**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

Combustible liquid

May be fatal if swallowed and enters airways

May cause respiratory irritation

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

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

Store locked up.

Dispose of contents/container to an appropriate recycling or disposal facility.

**Hazards not otherwise classified**

No data available

**3. Composition/information on ingredients**

**Substances**

Sum formula: CH<sub>3</sub>(CH<sub>2</sub>)<sub>8</sub>CH<sub>3</sub>

Molecular weight: 142.28 g/mol

**Relevant ingredients**

CAS No	Components	Quantity
112-40-3	dodecane	100 %

**Further Information**

No data available

**4. First-aid measures**

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 3 of 10

#### Description of first aid measures

##### **General information**

No data available

##### **After inhalation**

Provide fresh air.

##### **After contact with skin**

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

##### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

##### **After ingestion**

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Cough

Dyspnoea

Headache

Gastrointestinal complaints

Unconsciousness

Inebriation

Anaesthetic state

Pulmonary oedema

Repeated exposure may cause skin dryness or cracking.

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

Aspiration hazard

## 5. Fire-fighting measures

#### Extinguishing media

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)

Foam

Extinguishing powder

##### **Unsuitable extinguishing media**

No data available

#### Specific hazards arising from the chemical

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

In case of warming:

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

#### Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 4 of 10

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
 Move undamaged containers from immediate hazard area if it can be done safely.  
 Use water spray jet to protect personnel and to cool endangered containers.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### General advice

Keep away from sources of ignition - No smoking.  
 This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).  
 Take precautionary measures against static discharge.

#### For non-emergency personnel

Provide adequate ventilation.  
 Use personal protection equipment.  
 Avoid contact with skin, eyes and clothes.  
 Remove persons to safety.  
 Emergency procedures  
 Consult an expert  
 Do not breathe dust/fume/gas/mist/vapors/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

### Environmental precautions

Do not allow to enter into surface water or drains.  
 The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.  
 Danger of explosion

### Methods and material for containment and cleaning up

#### For containment

Cover drains.  
 Prevent spread over a wide area (e.g. by containment or oil barriers).  
 Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
 Collect in closed and suitable containers for disposal.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wear breathing apparatus if exposed to vapors/dusts/aerosols.

### Reference to other sections

Safe handling: see section 7  
 Personal protection equipment (PPE): see section 8  
 Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 5 of 10

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe vapor or spray. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapor or spray.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Store in a cool dry place.

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

##### Hints on joint storage

Keep away from: Oxidising agent

##### Further information on storage conditions

Protect from sunlight.

storage temperature < +30°C

## 8. Exposure controls/personal protection

### Control parameters

### Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles

Face protection umbrella

##### Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Wear fire resistant or flame retardant clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

The choice of body protection depends on the concentration and quantity of hazardous substances. The

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 6 of 10

chemical resistance of the protective agents should be clarified with their suppliers.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

#### Thermal hazards

No data available

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.

Danger of explosion

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	colorless, clear	
Odor:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic: (at 40 °C)		No data available
Water solubility: (at 25 °C)		No data available
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapor pressure: (at 20 °C)		No data available
Vapor pressure:		No data available
Density:		No data available
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available

### Other information

#### Information with regard to physical hazard classes

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**CONOSTAN Flash Point Standard, (D93-81°C)**

Revision date: 08/20/2025

Product code: AC18.05933

Page 7 of 10

**Explosive properties**

In case of warming:

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

Solid:

No data available

Gas:

No data available

**Oxidizing properties**

No data available

**Other safety characteristics**

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

**Further Information**

No data available

**10. Stability and reactivity**

**Reactivity**

In case of warming:

Vapours may form explosive mixtures with air.

**Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Oxidising agent

**Conditions to avoid**

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

**Incompatible materials**

Plastic articles

**Hazardous decomposition products**

in case of fire, see:

SECTION 5: Fire fighting measures

**Further information**

No data available

**11. Toxicological information**

**Route(s) of Entry**

No data available

**Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**

No data available

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**CONOSTAN Flash Point Standard, (D93-81°C)**

Revision date: 08/20/2025

Product code: AC18.05933

Page 8 of 10

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
112-40-3	dodecane				
	oral	LD50 > 15000 mg/kg	Rat	Study report (1977)	OECD Guideline 423
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

**Specific target organ toxicity (STOT) - single exposure**

May cause respiratory irritation (dodecane)

**Specific target organ toxicity (STOT) - repeated exposure**

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

**Aspiration hazard**

May be fatal if swallowed and enters airways

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No data available

**Further information**

Irritant

Cough

Dyspnoea

Headache

Gastrointestinal complaints

Unconsciousness

Inebriation

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 9 of 10

Anaesthetic state  
 Pulmonary oedema  
 Repeated exposure may cause skin dryness or cracking.

## 12. Ecological information

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### Other adverse effects

Avoid release to the environment.

### Further information

Do not allow to enter into surface water or drains.

## 13. Disposal considerations

### Waste treatment methods

#### **Disposal recommendations**

Send to a physico-chemical treatment facility under observation of official regulations.  
 Do not allow to enter into surface water or drains.  
 Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### U.S. DOT 49 CFR 172.101

**Proper shipping name:** No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

**UN number or ID number:** No dangerous good in sense of this transport regulation.

**UN proper shipping name:** No dangerous good in sense of this transport regulation.

**Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**Packing group:** No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:** No dangerous good in sense of this transport regulation.

**UN proper shipping name:** No dangerous good in sense of this transport regulation.

**Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**Packing group:** No dangerous good in sense of this transport regulation.

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user

No dangerous good in sense of this transport regulation.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### CONOSTAN Flash Point Standard, (D93-81°C)

Revision date: 08/20/2025

Product code: AC18.05933

Page 10 of 10

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 311/312 Hazards:

dodecane (112-40-3): Fire hazard, Immediate (acute) health hazard

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

Revision date: 08/20/2025

Revision No: 1,00

### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Provide appropriate information, instructions and training to users.