

## CONOSTAN Custom Blend Standards, Isooctane

Revision: 06.02.2026

Product code: AC18.06132

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### 1. Identification

#### Product identifier

CONOSTAN Custom Blend Standards, Isooctane

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

##### 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

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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.  
Street: Québec, CANADA  
Place: 21800 Clark Graham Ave  
CDN-H9X 4B6 Baie-D'Urfé  
Telephone: +1 (800) 361-6820  
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 & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
Telefax: +1 (800) 253-5549  
+1 703-741-5970 (CHEMTREC)

#### Emergency telephone number:

#### Further Information

No data available

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## 2. Hazard identification

### Classification of the substance or mixture

#### WHMIS 2015

Flammable liquids: Flam. Liq. 2  
 Skin corrosion/irritation: Skin Irrit. 2  
 Specific target organ toxicity - single exposure: STOT SE 3 (narcotic effects)  
 Aspiration hazard: Asp. Tox. 1  
 Hazardous to the aquatic environment: Aquatic Acute 1  
 Hazardous to the aquatic environment: Aquatic Chronic 1

### Label elements

#### WHMIS 2015

Signal word: Danger

Pictograms:



#### Hazard statements

Highly flammable liquid and vapour.  
 May be fatal if swallowed and enters airways.  
 Causes skin irritation.  
 May cause drowsiness or dizziness.  
 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

Immediately call a POISON CENTER/doctor.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 Do NOT induce vomiting.  
 If skin irritation occurs: Get medical advice/attention.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Store in a well-ventilated place. Keep cool.

### Other hazards

No data available

## 3. Composition/information on ingredients

### Mixtures

#### Relevant ingredients

| CAS No   | Chemical name          | Quantity       |
|----------|------------------------|----------------|
| 540-84-1 | 2,2,4-trimethylpentane | 80 - 100 % (*) |

(\*) The actual concentration is withheld as a trade secret.

#### Further Information

No data available

## 4. First-aid measures

### Description of first aid measures

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### General information

Remove contaminated, saturated clothing immediately.

### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

### After contact with skin

Wash immediately with: Water

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

In case of skin irritation, consult a physician.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

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

In case of eye irritation consult an ophthalmologist.

### After ingestion

Rinse mouth.

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

### Most important symptoms and effects, whether acute or delayed

Irritant

Vapours may cause drowsiness and dizziness.

Narcotic effects

Pulmonary oedema

Repeated exposure may cause skin dryness or cracking.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

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

No data available

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

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

Foam

Extinguishing powder

Water spray jet

#### Unsuitable extinguishing media

High power water jet.

### Specific hazards arising from the hazardous product

Combustible liquids

Hazardous combustion products

In case of fire may be liberated:

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

Carbon monoxide

Sulphur oxides

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

Heating causes rise in pressure with risk of bursting.

Beware of reignition.

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

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

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

### 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 action to prevent static discharges.

#### 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/vapours/spray.

#### For emergency responders

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

### Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

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/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

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### Advice on safe handling

Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Keep container tightly closed.  
Use personal protection equipment. Use extractor hood (laboratory).  
Provide adequate ventilation. Do not breathe vapour.

### Advice on protection against fire and explosion

Take action to prevent static discharges. 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.  
The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

### 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 in a cool, well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

National regulations

#### Further information on storage conditions

Keep container tightly closed and dry.  
Keep cool. Protect from sunlight.

## 8. Exposure controls/Personal protection

### Control parameters

#### Exposure limits (ACGIH)

| CAS No | Chemical name       | ppm | mg/m <sup>3</sup> | Category  | Origin     |
|--------|---------------------|-----|-------------------|-----------|------------|
| -      | Octane: all isomers | 300 | 1401              | TWA (8 h) | ACGIH-2025 |

### 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

Wear 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.

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### Skin protection

- Take off immediately all contaminated clothing and wash it before reuse.
- Wear fire resistant or flame retardant clothing.
- Wash hands and face before breaks and after work and take a shower if necessary.
- Draw up and observe skin protection programme.

### Respiratory protection

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- 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.

### 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 vapours into cellars, flues and ditches.
- Danger of explosion

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                                                           |                    |                   |
|-----------------------------------------------------------|--------------------|-------------------|
| Physical state:                                           | Liquid             |                   |
| Colour:                                                   | colourless, clear  |                   |
| Odour:                                                    | like: Hydrocarbons |                   |
| 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 explosive limits:                                   |                    | No data available |
| Upper explosive 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:                                    |                    | No data available |
| Water solubility:                                         |                    | 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 |
| Vapour pressure:                                          |                    | No data available |
| Vapour 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

##### Explosive properties

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

# Safety Data Sheet

according to WHMIS

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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

Viscosity / dynamic:

No data available

Flow time:

No data available

### Further Information

No data available

## 10. Stability and reactivity

### Reactivity

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: Firefighting measures

### Further information

No data available

## 11. Toxicological information

### Information on toxicological effects

#### **Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

#### **Acute toxicity**

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No   | Chemical name           |                   |         |                     |                    |
|----------|-------------------------|-------------------|---------|---------------------|--------------------|
|          | Route of exposure       | Dose              | Species | Source              | Method             |
| 540-84-1 | 2,2,4-trimethylpentane  |                   |         |                     |                    |
|          | oral                    | LD50 > 5000 mg/kg | Rat     | Study report (1982) | OECD Guideline 401 |
|          | dermal                  | LD50 > 2000 mg/kg | Rabbit  | Study report (1982) | OECD Guideline 402 |
|          | inhalation (4 h) vapour | LC50 > 33,52 mg/l | Rat     | Study report (1982) | OECD Guideline 403 |

### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

### 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.

### STOT-single exposure

May cause drowsiness or dizziness. (2,2,4-trimethylpentane)

Organs affected: central nervous system

### STOT-repeated exposure

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

### Aspiration hazard

May be fatal if swallowed and enters airways.

### Information on likely routes of exposure

There are no data available on the mixture itself.

### Specific effects in experiment on an animal

There are no data available on the mixture itself.

### Additional information on tests

There are no data available on the mixture itself.

### Practical experience

There are no data available on the mixture itself.

### Information on other hazards

#### Endocrine disrupting properties

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

#### Other information

There are no data available on the mixture itself.

### Further information

Irritant

Vapours may cause drowsiness and dizziness.

Narcotic effects

Pulmonary oedema

Repeated exposure may cause skin dryness or cracking.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin

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inflammation).

**12. Ecological information****Ecotoxicity**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

| CAS No   | Chemical name            |                  |           |                                 |                                         |                                          |
|----------|--------------------------|------------------|-----------|---------------------------------|-----------------------------------------|------------------------------------------|
|          | Aquatic toxicity         | Dose             | [h]   [d] | Species                         | Source                                  | Method                                   |
| 540-84-1 | 2,2,4-trimethylpentane   |                  |           |                                 |                                         |                                          |
|          | Acute fish toxicity      | LC50 0,11 mg/l   | 96 h      | Oncorhynchus mykiss             | SIDS Initial Assessment Report For SIAM | OECD Guideline 203                       |
|          | Acute algae toxicity     | ErC50 2,943 mg/l | 72 h      | Pseudokirchneriella subcapitata | CONCAWE, Brussels, Belgium (2010)       | The aquatic toxicity was estimated by a  |
|          | Acute crustacea toxicity | EC50 0,4 mg/l    | 48 h      | Daphnia magna                   | Publication (1986)                      | other: As described in: The evaluation o |
|          | Fish toxicity            | NOEC 0,82 mg/l   | 28 d      | Oncorhynchus mykiss             | CONCAWE, Brussels, Belgium (2010)       | The aquatic toxicity was estimated by a  |
|          | Crustacea toxicity       | NOEC 1 mg/l      | 21 d      | Daphnia magna                   | SIDS Initial Assessment Report For SIAM | OECD Guideline 211                       |

**Persistence and degradability**

There are no data available on the mixture itself.

**Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No   | Chemical name          | Log Pow |
|----------|------------------------|---------|
| 540-84-1 | 2,2,4-trimethylpentane | 4,08    |

**BCF**

| CAS No   | Chemical name          | BCF | Species    | Source               |
|----------|------------------------|-----|------------|----------------------|
| 540-84-1 | 2,2,4-trimethylpentane | 231 | calculated | Other company data ( |

**Mobility in soil**

There are no data available on the mixture itself.

**Endocrine disrupting properties**

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

**Other adverse effects**

Do not allow to enter into surface water or drains.

Avoid release to the environment.

**Further information**

No data available

**13. Disposal considerations****Waste treatment methods**

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### 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

### Canadian TDG

|                              |         |
|------------------------------|---------|
| <b>UN number:</b>            | UN 1262 |
| <b>Proper shipping name:</b> | OCTANES |
| <b>Hazard classes:</b>       | 3       |
| <b>Packing group:</b>        | II      |
| Hazard label:                | 3       |
| Limited quantity:            | 1L      |

### Marine transport (IMDG)

|                                             |          |
|---------------------------------------------|----------|
| <b>UN number or ID number:</b>              | UN 1262  |
| <b>United Nations proper shipping name:</b> | OCTANES  |
| <b>Transport hazard class(es):</b>          | 3        |
| <b>Packing group:</b>                       | II       |
| Hazard label:                               | 3        |
| Marine pollutant:                           | P        |
| Special Provisions:                         | -        |
| Limited quantity:                           | 1 L      |
| Excepted quantity:                          | E2       |
| EmS:                                        | F-E, S-E |

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

|                                             |         |
|---------------------------------------------|---------|
| <b>UN number or ID number:</b>              | UN 1262 |
| <b>United Nations proper shipping name:</b> | OCTANES |
| <b>name:</b>                                |         |
| <b>Transport hazard class(es):</b>          | 3       |
| <b>Packing group:</b>                       | II      |
| Hazard label:                               | 3       |
| Limited quantity Passenger:                 | 1 L     |
| Passenger LQ:                               | Y341    |
| Excepted quantity:                          | E2      |
| IATA-packing instructions - Passenger:      | 353     |
| IATA-max. quantity - Passenger:             | 5 L     |
| IATA-packing instructions - Cargo:          | 364     |
| IATA-max. quantity - Cargo:                 | 60 L    |

### Environmental hazards

|                             |        |
|-----------------------------|--------|
| ENVIRONMENTALLY HAZARDOUS:  | Yes    |
| Danger releasing substance: | octane |

## 15. Regulatory information

### Canadian regulations

## Safety Data Sheet

according to WHMIS

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#### Provincial regulations

Ingredients with workplace control parameters:

Components: isooctane

CAS-No. 540-84-1

TWAEV 300 ppm Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1:

Permissible exposure values for airborne contaminants

TWA 300 ppm Canada. British Columbia OEL

#### 16. Other information

##### Further Information

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

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*