

**CONOSTAN High Sulfur in Iso UV set**

Revision: 09.06.2023

Product code: AC18.10197

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**1. Identification**
**Product identifier**

CONOSTAN High Sulfur in Iso UV set

REACH Registration Number: 01-2119457965-22-XXXX  
CAS No: 540-84-1  
Index No: 601-009-00-8  
EC No: 208-759-1

**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.

**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 & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
**Emergency telephone number:** +1 703-741-5970 (CHEMTREC)

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**2. Hazard identification**

**Classification of the substance or mixture**

**Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225  
Skin Irrit. 2; H315  
STOT SE 3; H336  
Asp. Tox. 1; H304  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

**Label elements**

**Regulation (EC) No 1272/2008**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container to ....

**3. Composition/information on ingredients**

**Substances**

Sum formula: C<sub>8</sub>H<sub>18</sub>  
Molecular weight: 114,23 g/mol

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**Relevant ingredients**

| CAS No   | Chemical name                                                                                                          |              |                       | Quantity |
|----------|------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|----------|
|          | EC No                                                                                                                  | Index No     | REACH No              |          |
|          | Classification (Regulation (EC) No 1272/2008)                                                                          |              |                       |          |
| 540-84-1 | 2,2,4-trimethylpentane                                                                                                 |              |                       | 100 %    |
|          | 208-759-1                                                                                                              | 601-009-00-8 | 01-2119457965-22-XXXX |          |
|          | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410 |              |                       |          |

Full text of H statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No   | EC No                                                                                             | Chemical name          | Quantity |
|----------|---------------------------------------------------------------------------------------------------|------------------------|----------|
|          | Specific Conc. Limits, M-factors and ATE                                                          |                        |          |
| 540-84-1 | 208-759-1                                                                                         | 2,2,4-trimethylpentane | 100 %    |
|          | inhalation: LC50 = > 33,52 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg |                        |          |

**4. First-aid measures**
**Description of first aid measures**
**5. Fire-fighting measures**
**Extinguishing media**
**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

**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).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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### 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.

## 7. Handling and storage

### Precautions for safe handling

### Conditions for safe storage, including any incompatibilities

## 8. Exposure controls/Personal protection

### Control parameters

### Exposure limits (ACGIH)

| CAS No   | Chemical name                     | ppm | mg/m <sup>3</sup> | Category  | Origin     |
|----------|-----------------------------------|-----|-------------------|-----------|------------|
| 540-84-1 | Isooctane; 2,2,4-Trimethylpentane | 300 | 1401              | TWA (8 h) | ACGIH-2025 |

### DNEL/DMEL values

| CAS No                   | Chemical name          | Exposure route | Effect                 | Value |
|--------------------------|------------------------|----------------|------------------------|-------|
| 540-84-1                 | 2,2,4-trimethylpentane |                |                        |       |
| Worker DNEL, long-term   | inhalation             | systemic       | 2035 mg/m <sup>3</sup> |       |
| Worker DNEL, long-term   | dermal                 | systemic       | 773 mg/kg bw/day       |       |
| Consumer DNEL, long-term | inhalation             | systemic       | 608 mg/m <sup>3</sup>  |       |
| Consumer DNEL, long-term | dermal                 | systemic       | 699 mg/kg bw/day       |       |
| Consumer DNEL, long-term | oral                   | systemic       | 699 mg/kg bw/day       |       |

### Exposure controls

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| Physical state:                                           | Liquid                                   |
| Colour:                                                   | colourless                               |
| Odour:                                                    | petrol-like                              |
| Melting point/freezing point:                             | -107 °C °C                               |
| Boiling point or initial boiling point and boiling range: | 99 °C °C                                 |
| Lower explosive limits:                                   | 1,1 vol. %                               |
| Upper explosive limits:                                   | 6,0 Vol % vol. %                         |
| Flash point:                                              | -12 °C °C                                |
| Auto-ignition temperature:                                | 410 °C °C                                |
| pH-Value:                                                 | neutral                                  |
| Water solubility:                                         | No                                       |
| Vapour pressure:                                          | 51 hPa hPa                               |
| (at 20 °C °C)                                             |                                          |
| Density:                                                  | 0,69 g/cm <sup>3</sup> g/cm <sup>3</sup> |

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**10. Stability and reactivity****11. Toxicological information****Information on toxicological effects****Acute toxicity**

| 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 |

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

| 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                       |

**Bioaccumulative potential****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 ( |

**Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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### Endocrine disrupting properties

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

## 13. Disposal considerations

### Waste treatment methods

## 14. Transport information

### Land transport (ADR/RID)

|                                             |         |
|---------------------------------------------|---------|
| <u>UN number or ID number:</u>              | UN 1262 |
| <u>United Nations proper shipping name:</u> | OCTANE  |
| <u>Transport hazard class(es):</u>          | 3       |
| <u>Packing group:</u>                       | II      |
| Hazard label:                               | 3       |
| Classification Code:                        | F1      |
| Limited quantity:                           | 1 L     |
| Excepted quantity:                          | E2      |
| Transport category:                         | 2       |
| Hazard No:                                  | 33      |
| Tunnel restriction code:                    | D/E     |

### Inland waterways transport (ADN)

|                                             |             |
|---------------------------------------------|-------------|
| <u>UN number or ID number:</u>              | UN 1262     |
| <u>United Nations proper shipping name:</u> | 1262 OCTANE |
| <u>Transport hazard class(es):</u>          | 3           |
| <u>Packing group:</u>                       | II          |
| Hazard label:                               | 3           |
| Classification Code:                        | F1          |
| Limited quantity:                           | 1L          |

### Marine transport (IMDG)

|                                             |                           |
|---------------------------------------------|---------------------------|
| <u>UN number or ID number:</u>              | UN 1262                   |
| <u>United Nations proper shipping name:</u> | OCTANES, MARINE POLLUTANT |
| <u>Transport hazard class(es):</u>          | 3                         |
| <u>Packing group:</u>                       | II                        |
| Hazard label:                               | 3                         |
| Marine pollutant:                           | P                         |
| EmS:                                        | F-E,S-E                   |

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

|                                             |         |
|---------------------------------------------|---------|
| <u>UN number or ID number:</u>              | UN 1262 |
| <u>United Nations proper shipping name:</u> | OCTANES |
| <u>Transport hazard class(es):</u>          | 3       |
| <u>Packing group:</u>                       | II      |
| Hazard label:                               | 3       |

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

## 15. Regulatory information

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**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU Regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: Ja

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**16. Other information**

**Abbreviations and acronyms**

Flam. Liq. 2: Flammable liquids

Asp. Tox. 1: Aspiration hazard

Skin Irrit. 2: Skin irritation

STOT SE 3: Specific target organ toxicity - single exposure

Aquatic Acute 1: Acute aquatic hazard

Aquatic Chronic 1: Chronic aquatic hazard

**Relevant H statements (number and full text)**

|      |                                                       |
|------|-------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                   |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |