

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## BARACOR 100 with OXYGON Solution

Revision Date: 23-Jan-2012

Revision Number: 2

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier****Product Name**

BARACOR 100 with OXYGON Solution

**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use**

Fluid

**Uses Advised Against**

No information available

**Details of the supplier of the safety data sheet**

Halliburton Manufacturing Services, Ltd.  
Halliburton House, Howemoss Crescent  
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Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

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**E-Mail address:**

fdunexchem@halliburton.com

**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

**Emergency telephone \$45 - (EC)1272/2008**

|                       |   |
|-----------------------|---|
| <b>Europe</b>         | <b>112</b>  |
| <b>Denmark</b>        | Poison Control Hotline (DK): +45 82 12 12 12  |
| <b>France</b>         | ORFILA (FR): + 01 45 42 59 59   |
| <b>Germany</b>        | Poison Center Berlin (DE): +49 030 30686 790  |
| <b>Italy</b>          | Poison Center, Milan (IT): +39 02 6610 1029   |
| <b>Netherlands</b>    | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| <b>Norway</b>         | Poisons Information (NO): + 47 22 591300  |
| <b>Poland</b>         | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97                                  |
| <b>Spain</b>          | Poison Information Service (ES): +34 91 562 04 20   |
| <b>United Kingdom</b> | NHS Direct (UK): +44 0845 46 47   |

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

|  |                    |
|--|--------------------|
| Carcinogenicity                                    | Category 2- (H351) |
| Specific Target Organ Toxicity - (Single Exposure) | Category 2- (H371) |

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

For the full text of the R-phrases mentioned in this Section, see Section 16

## 2. HAZARDS IDENTIFICATION

**Classification** Xn - Harmful.

**Risk Phrases** R40 Limited evidence of a carcinogenic effect.  
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

### Label Elements

#### Hazard Pictograms



#### Signal Word

**Warning**

#### Hazard Statements

H351 - Suspected of causing cancer

H371 - May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed

#### Contains

##### Substances

Methanol

Nitritotriacetic acid, trisodium salt monohydrate

##### CAS Number

67-56-1

5064-31-3

#### Precautionary Statements - EU (§28, 1272/2008)

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P281 - Use personal protective equipment as required

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

P309 + P311 - If exposed or you feel unwell: Call a POISON CENTRE or doctor/physician

#### Other Hazards

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances  | EINECS    | CAS Number | PERCENT | EEC Classification                    | EU - CLP Substance Classification  | REACH No.         |
|---|-----------|------------|---------|---------------------------------------|--|-------------------|
| Methanol  | 200-659-6 | 67-56-1    | 1 - 5%  | F; R11<br>T; R23/24/25-39/23/24/25    | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>STOT SE 1 (H370)<br>Flam. Liq. 2 (H225) | No data available |
| Nitritotriacetic acid, trisodium salt monohydrate | 255-768-6 | 5064-31-3  | 0 - 1%  | Carc Cat 3; R40<br>Xn; R22<br>Xi; R36 | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Carc. 2 (H351)   | No data available |

**For the full text of the R-phrases mentioned in this Section, see Section 16**

## 4. FIRST AID MEASURES

### Description of first aid measures

#### **Inhalation**

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

#### **Eyes**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

#### **Skin**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

#### **Ingestion**

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

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

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May cause blindness. Potential carcinogen.

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

#### **Notes to Physician**

Treat symptomatically

## 5. FIREFIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

#### **Extinguishing media which must not be used for safety reasons**

None known.

### Special hazards arising from the substance or mixture

#### **Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

### Advice for firefighters

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment.

See Section 12 for additional information

### Environmental precautions

Prevent from entering sewers, waterways, or low areas.

### Methods and material for containment and cleaning up

Contain spill with sand or other inert materials. Scoop up and remove. Isolate spill and stop leak where safe.

### Reference to other sections

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Wash hands after use. Launder contaminated clothing before reuse. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

### Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 24 months.

### Specific End Use(s)

#### **Exposure Scenario**

No information available

## Other Guidelines

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

| Substances  | EU             | UK OEL         | Netherlands           | France OEL     | Germany MAK/TRK |
|---|----------------|----------------|-----------------------|----------------|-----------------|
| Methanol  | Not applicable | 200 ppm        | 133 mg/m <sup>3</sup> | 200 ppm        | 200 ppm         |
| Nitrilotriacetic acid, trisodium salt monohydrate | Not applicable | Not applicable | Not applicable        | Not applicable | Not applicable  |

| Substances  | Italy          | Poland                | Hungary               | Czech Republic        | Denmark        |
|---|----------------|-----------------------|-----------------------|-----------------------|----------------|
| Methanol  | 200 ppm        | 100 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 250 mg/m <sup>3</sup> | Not applicable |
| Nitrilotriacetic acid, trisodium salt monohydrate | Not applicable | Not applicable        | Not applicable        | Not applicable        | Not applicable |

## Derived No Effect Level (DNEL)

No information available.

## Predicted No Effect Concentration (PNEC)

No information available.

## Exposure controls

## Engineering Controls

Use in a well ventilated area.

## Personal protective equipment

## Respiratory Protection

Not normally needed. But if significant exposures are possible then the following respirator is recommended:  
Organic vapor respirator.

## Hand Protection

Impervious rubber gloves.

## Skin Protection

Rubber apron.

## Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

## Other Precautions

Eyewash fountains and safety showers must be easily accessible.

## Environmental Exposure Controls

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State: Liquid  
Odor: Alcohol

Color: Clear brown  
Odor Threshold: No information available

Property  
Remarks/ Method

## Values

pH:  
Melting Point/Range  
Freezing Point/Range (C):  
Boiling Point/Range  
Flash Point  
Evaporation rate  
Vapor Pressure  
Vapor Density  
Specific Gravity  
Water Solubility  
Solubility in other solvents  
Partition coefficient: n-octanol/water  
Autoignition Temperature  
Decomposition Temperature  
Viscosity  
Explosive Properties  
Oxidizing Properties

No data available  
No data available  
No data available  
No data available  
> 93°C  
No data available  
No data available  
No data available  
No data available  
Soluble in water  
No data available  
No data available  
No data available  
No data available  
No data available  
No data available  
No data available  
No data available  
No data available  
No data available

## Other information

VOC Content (%)

No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

Will Not Occur

### Conditions to Avoid

None anticipated

### Incompatible Materials

Strong oxidizers.

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

##### Eye Contact

May cause eye irritation.

##### Skin Contact

May cause skin irritation. May cause skin defatting with prolonged exposure.

##### Ingestion

May cause abdominal pain, vomiting, nausea, and diarrhea. Irritation of the mouth, throat, and stomach. Ingestion may result in blindness. May produce nervous system effects such as feeling of weakness, unsteady walk, and dilation of blood vessels.

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart, central nervous system and spleen damage. Contains nitrilotriacetic acid or its salts, which is listed as a suspect carcinogen of the urinary tract and kidneys by NTP, based on feeding studies with laboratory animals. According to the ACGIH guidelines, NTA would "not be considered an occupational carcinogen of any significance." IARC cancer review classification: 2B (Possibly Carcinogenic to Humans)

| Substances  | LD50 Oral       | LD50 Dermal       | LC50 Inhalation   |
|---|-----------------|-------------------|-------------------|
| Methanol  | 5628 mg/kg      | 15800 mg/kg       | 83.2 mg/l         |
| Nitrilotriacetic acid, trisodium salt monohydrate | LD50: 920 mg/kg | No data available | LC50: >5 mg/L 4 h |

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### Ecotoxicity Effects

| Substances  | Toxicity to Algae                             | Toxicity to Fish                            | Toxicity to Microorganisms | Daphnia Magna (Water Flea)              |
|---|---|---|----------------------------|---|
| Methanol  | No information available                      | LC50: 28200 mg/l<br>(Pimephales promelas)   | No information available   | No information available                |
| Nitrilotriacetic acid, trisodium salt monohydrate | EC50: 560 - 1000 mg/L<br>(Chlorella vulgaris) | LC50: 175-225 mg/L<br>(Lepomis macrochirus) | No information available   | LC50: 560 - 1000 mg/<br>(Daphnia magna) |

**Persistence and degradability**

No information available

**Bioaccumulative potential**

Does not bioaccumulate

| Substances | Log Pow |
|------------|---------|
| Methanol   | -0.77   |

**Mobility in soil**

No information available

**Results of PBT and vPvB assessment**

No information available.

**Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal Method****Contaminated Packaging**

Disposal should be made in accordance with federal, state, and local regulations.

Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION****IMDG/IMO**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**RID**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**ADR**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**IATA/ICAO**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**Special Precautions for User**

None

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

Not applicable

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

**15. REGULATORY INFORMATION**

|                               |  |
|-------------------------------|--|
| <b>EINECS Inventory</b>       | This product, and all its components, complies with EINECS |
| <b>US TSCA Inventory</b>      | All components listed on inventory or are exempt.          |
| <b>Canadian DSL Inventory</b> | All components listed on inventory or are exempt.          |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering Classes (WGK)** WGK 1: Low hazard to waters.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

R40 Limited evidence of a carcinogenic effect.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:** 23-Jan-2012

**Revision Note** Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer Statement**

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**End of Safety Data Sheet**