



# Safety Data Sheet

Issue Date: 28 Nov 2017

Revision Date: 26-Sep-2019

Version 1

## 1. IDENTIFICATION

### Product Identifier

Product Name                      Liquik 30

### Other means of identification

SDS #                                BIR-032

Product Code                      I00134  
UN/ID No                            UN1824

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

Recommended Use                      Self-foaming alkaline cleaner.

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

#### **Supplier Address**

Birko Corporation  
9152 Yosemite Street  
Henderson, CO 80640-8027  
www.birkocorp.com

### Emergency Telephone Number

Company Phone Number                      Phone: 303-289-1090 or 1-800-525-0476  
    Fax: 303-289-1190  
Emergency Telephone (24 hr)                      Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

Appearance: Pale yellow

Physical state: Liquid

Odor: Solvent detergent

### Classification

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|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |

**Signal Word****Danger****Hazard statements**

Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

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

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
Wash contaminated clothing before reuseIF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                             | CAS No.    | Weight-% |
|---|------------|----------|
| Sodium hydroxide                          | 1310-73-2  | 1-10     |
| Dipropylene Glycol Monomethyl Ether (DPM) | 34590-94-8 | <5       |
| 1-Methoxy-2-propanol                      | 107-98-2   | <5       |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*\*

**4. FIRST AID MEASURES****First Aid Measures**

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Immediately call a poison center or doctor/physician.  |
| <b>Eye Contact</b>    | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. |
| <b>Skin Contact</b>   | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  |
| <b>Inhalation</b>     | Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.   |
| <b>Ingestion</b>      | Rinse mouth. Do NOT induce vomiting.   |

**Most important symptoms and effects**

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|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Causes severe skin burns and eye damage. |
|-----------------|--|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Unsuitable Extinguishing Media</b> | Not determined. |
|---------------------------------------|-----------------|

**Specific Hazards Arising from the Chemical**

Not determined.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

|                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | Use personal protective equipment as required. |
|-----------------------------|--|

**Environmental precautions****Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. |
|--------------------------------|---|

|                             |   |
|-----------------------------|---|
| <b>Methods for Clean-Up</b> | Keep in suitable, closed containers for disposal. |
|-----------------------------|---|

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

|                                |   |
|--------------------------------|---|
| <b>Advice on Safe Handling</b> | Do not breathe dusts or mists. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection. |
|--------------------------------|---|

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

|                           |                  |
|---------------------------|------------------|
| <b>Storage Conditions</b> | Store locked up. |
|---------------------------|------------------|

|                               |   |
|-------------------------------|---|
| <b>Incompatible Materials</b> | None known based on information supplied. |
|-------------------------------|---|

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name  | ACGIH TLV                           | OSHA PEL   | NIOSH IDLH  |
|--|-------------------------------------|--|---|
| Sodium hydroxide<br>1310-73-2                              | Ceiling: 2 mg/m <sup>3</sup>        | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup>   | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup>  |
| Dipropylene Glycol Monomethyl Ether<br>(DPM)<br>34590-94-8 | STEL: 150 ppm<br>TWA: 100 ppm<br>S* | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 600 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 900 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 600 ppm<br>TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 900 mg/m <sup>3</sup> |
| 1-Methoxy-2-propanol<br>107-98-2                           | STEL: 100 ppm<br>TWA: 50 ppm        | (vacated) TWA: 100 ppm<br>(vacated) TWA: 360 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 540 mg/m <sup>3</sup>   | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>                  |

### Appropriate engineering controls

#### Engineering Controls

Apply technical measures to comply with the occupational exposure limits.

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

#### Eye/Face Protection

Refer to 29 CFR 1910.133 for eye and face protection regulations.

#### Skin and Body Protection

Refer to 29 CFR 1910.138 for appropriate skin and body protection.

#### Respiratory Protection

Refer to 29 CFR 1910.134 for respiratory protection requirements.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                 |               |                |                    |
|-----------------|---------------|----------------|--------------------|
| Physical state  | Liquid        |                |                    |
| Appearance      | Amber liquid  | Odor           | Solvent, detergent |
| Color           | Amber         | Odor Threshold | Not determined     |
| <u>Property</u> | <u>Values</u> |                |                    |

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|                              |                       | <u>Remarks • Method</u> |
|------------------------------|-----------------------|-------------------------|
| pH (1% solution)             | 12.1                  |                         |
| Melting Point/Freezing Point | Not determined        |                         |
| Boiling Point/Boiling Range  | Not determined        |                         |
| Flash Point                  | Not determined        |                         |
| Evaporation Rate             | Not determined        |                         |
| Flammability (Solid, Gas)    | Liquid-Not applicable |                         |
| Flammability Limits in Air   |                       |                         |
| Upper Flammability Limits    | Not determined        |                         |
| Lower Flammability Limit     | Not determined        |                         |
| Vapor Pressure               | Not determined        |                         |
| Vapor Density                | Not determined        |                         |
| Specific Gravity             | 1.1                   |                         |

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|                                     |                |
|-------------------------------------|----------------|
| <b>Water Solubility</b>             | Not determined |
| <b>Solubility in other solvents</b> | Not determined |
| <b>Partition Coefficient</b>        | Not determined |
| <b>Auto-ignition Temperature</b>    | Not determined |
| <b>Decomposition Temperature</b>    | Not determined |
| <b>Kinematic Viscosity</b>          | Not determined |
| <b>Dynamic Viscosity</b>            | Not determined |
| <b>Explosive Properties</b>         | Not determined |
| <b>Oxidizing Properties</b>         | Not determined |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

None known based on information supplied.

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**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information****Eye Contact** Avoid contact with eyes.**Skin Contact** Avoid contact with skin.**Inhalation** Do not inhale.**Ingestion** Do not ingest.**Component Information**

| Chemical Name  | Oral LD50            | Dermal LD50             | Inhalation LC50        |
|--|----------------------|-------------------------|------------------------|
| Sodium hydroxide<br>1310-73-2                              | -                    | = 1350 mg/kg ( Rabbit ) | -                      |
| Dipropylene Glycol Monomethyl<br>Ether (DPM)<br>34590-94-8 | = 5400 µL/kg ( Rat ) | = 9500 mg/kg ( Rabbit ) | -                      |
| 1-Methoxy-2-propanol<br>107-98-2                           | = 5000 mg/kg ( Rat ) | = 13 g/kg ( Rabbit )    | > 7559 ppm ( Rat ) 6 h |

**Information on physical, chemical and toxicological effects****Symptoms** Please see section 4 of this SDS for symptoms.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** Causes severe skin burns.**Serious eye damage/eye irritation** Causes severe eye damage.**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 74,646.00 mg/kg

ATEmix (dermal) 14,763.00 mg/kg

ATEmix (inhalation-vapor) 1,447.32 mg/L



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

| Chemical Name  | Algae/aquatic plants | Fish   | Crustacea                              |
|--|----------------------|--|--|
| Sodium hydroxide<br>1310-73-2                              |                      | 45.4: 96 h Oncorhynchus mykiss<br>mg/L LC50 static   |  |
| Dipropylene Glycol Monomethyl<br>Ether (DPM)<br>34590-94-8 |                      | 10000: 96 h Pimephales<br>promelas mg/L LC50 static  | 1919: 48 h Daphnia magna mg/L<br>LC50  |
| 1-Methoxy-2-propanol<br>107-98-2                           |                      | 4600 - 10000: 96 h Leuciscus<br>idus mg/L LC50 static 20.8: 96 h<br>Pimephales promelas g/L LC50<br>static | 23300: 48 h Daphnia magna<br>mg/L EC50 |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

| Chemical Name   | Partition Coefficient |
|---|-----------------------|
| Dipropylene Glycol Monomethyl Ether (DPM)<br>34590-94-8 | -0.064                |
| 1-Methoxy-2-propanol<br>107-98-2                        | -0.437                |

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### California Hazardous Waste Status

| Chemical Name    | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Sodium hydroxide | Toxic                             |

|                 |           |
|-----------------|-----------|
| 1310-73-2       | Corrosive |
| Sodium chlorate | Toxic     |
| 7775-09-9       | Ignitable |

#### 14. TRANSPORT INFORMATION

##### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

##### DOT

UN/ID No UN1824  
 Proper Shipping Name Sodium hydroxide, solution  
 Hazard Class 8  
 Packing Group II

##### IATA

UN/ID No UN1824  
 Proper Shipping Name Sodium hydroxide, solution  
 Hazard Class 8  
 Packing Group II

##### IMDG

UN/ID No UN1824  
 Proper Shipping Name Sodium hydroxide, solution  
 Hazard Class 8  
 Packing Group II

#### 15. REGULATORY INFORMATION

##### International Inventories

| Chemical Name                                | TSCA | DSL/ND<br>SL | EINECS/<br>ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|--|------|--------------|-------------------|---------|-------|---------|-------|------|
| Sodium hydroxide                             | X    | X            | X                 | Present | X     | Present | X     | X    |
| Dipropylene Glycol<br>Monomethyl Ether (DPM) | X    | X            | X                 | Present | X     | Present | X     | X    |
| 1-Methoxy-2-propanol                         | X    | X            | X                 | Present | X     | Present | X     | X    |

##### Legend:

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

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

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

*ENCS* - Japan Existing and New Chemical Substances

*IECSC* - China Inventory of Existing Chemical Substances

*KECL* - Korean Existing and Evaluated Chemical Substances

*PICCS* - Philippines Inventory of Chemicals and Chemical Substances

*AICS* - Australian Inventory of Chemical Substances

##### US Federal Regulations

**CERCLA**

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**SARA 313**

| Chemical Name   | CAS No.    | Weight-% | SARA 313 - Threshold Values % |
|---|------------|----------|-------------------------------|
| Dipropylene Glycol Monomethyl Ether (DPM) -<br>34590-94-8 | 34590-94-8 | <5       | 1.0                           |

**CWA (Clean Water Act)**

| Chemical Name    | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide | 1000 lb                     |                        |                           | X                          |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name   | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Sodium hydroxide<br>1310-73-2                           | X          | X             | X            |
| Dipropylene Glycol Monomethyl Ether (DPM)<br>34590-94-8 | X          | X             | X            |
| 1-Methoxy-2-propanol<br>107-98-2                        | X          | X             | X            |
| Sodium chlorate<br>7775-09-9                            | X          | X             | X            |

**16. OTHER INFORMATION****NFPA**

Health Hazards  
2

Flammability  
1

Instability  
1

Special Hazards

**HMIS**

Health Hazards  
2

Flammability  
1

Reactivity  
2

Personal Protection  
J

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**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**