



your partner in food safety

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

Emergency Telephone (24 hr) Fax: 303-289-1190
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

| | |
|-----------------------------------|---------------------------|
| 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 reuse

IF 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**

| | |
|-----------------------|--|
| General Advice | Immediately call a poison center or doctor/physician. |
| Eye Contact | 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. |
| Skin Contact | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. |
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. |

Most important symptoms and effects

Symptoms Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media 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

Personal Precautions Use personal protective equipment as required.

Environmental precautions

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling 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

Storage Conditions Store locked up.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

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 |
|--------------|-------|-----------------------|----------------|

| | |
|-----------------|---------------|
| Property | Values |
|-----------------|---------------|

Remarks • Method

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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Water Solubility Not determined

Solubility in other solvents Not determined

Partition Coefficient Not determined

Auto-ignition Temperature Not determined

Decomposition Temperature Not determined

Kinematic Viscosity Not determined

Dynamic Viscosity Not determined

Explosive Properties Not determined
Oxidizing Properties 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 1310-73-2 | - | = 1350 mg/kg (Rabbit) | - |
| Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8 | = 5400 µL/kg (Rat) | = 9500 mg/kg (Rabbit) | - |
| 1-Methoxy-2-propanol 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 1310-73-2 | | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static | |
| Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8 | | 10000: 96 h Pimephales promelas mg/L LC50 static | 1919: 48 h Daphnia magna mg/L LC50 |
| 1-Methoxy-2-propanol 107-98-2 | | 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static 20.8: 96 h Pimephales promelas g/L LC50 static | 23300: 48 h Daphnia magna mg/L EC50 |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

| Chemical Name | Partition Coefficient |
|---|-----------------------|
| Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8 | -0.064 |
| 1-Methoxy-2-propanol 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 7775-09-9 | Toxic 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 ^{SL} | EINECS/ ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|--|------|----------------------|-------------------|---------|-------|---------|-------|------|
| Sodium hydroxide | X | X | X | Present | X | Present | X | X |
| Dipropylene Glycol 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/NDSL - 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 1310-73-2 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

SARA 313

| Chemical Name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|---|------------|----------|-------------------------------|
| Dipropylene Glycol Monomethyl Ether (DPM) - 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 1310-73-2 | X | X | X |
| Dipropylene Glycol Monomethyl Ether (DPM) 34590-94-8 | X | X | X |
| 1-Methoxy-2-propanol 107-98-2 | X | X | X |
| Sodium chlorate 7775-09-9 | X | X | X |

16. OTHER INFORMATION

| NFPA | Health Hazards | Flammability | Instability | Special Hazards |
|------|----------------|--------------|-------------|-----------------|
| | 2 | 1 | 1 | |

| HMIS | Health Hazards | Flammability | Reactivity | Personal Protection |
|------|----------------|--------------|------------|---------------------|
| | 2 | 1 | 2 | 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