

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Brake Anti-Squeal  
Product code : 94160

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Brake pad treatment

#### 1.3. Supplier

Bardahl Pro  
1400 NW 52nd Street  
Seattle, 98107 - USA  
T 206-783-4851 - F 206-784-3219  
[www.bardahl.com](http://www.bardahl.com)  
Contact: Jackie Leung

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|  |                                     |
|--|-------------------------------------|
| Flammable liquids, Category 2  | Highly flammable liquid and vapour. |
| Serious eye damage/eye irritation, Category 2                          | Causes serious eye irritation.      |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | May cause drowsiness or dizziness.  |

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Highly flammable liquid and vapour.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

Precautionary statements (GHS US) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing fume, gas, vapours.  
Wash hands thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection, protective clothing, protective gloves.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>) to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance

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with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name              | Product identifier | %       | GHS-US classification                                       |
|-------------------|--------------------|---------|---|
| Isopropyl Alcohol | (CAS-No.) 67-63-0  | 10 – 30 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Rinse skin with water/shower. Take off immediately all contaminated clothing.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May cause drowsiness or dizziness.
- Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Highly flammable liquid and vapour.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, vapours. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, vapours. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Brake Anti-Squeal                                 |                           |
|---|---------------------------|
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                           |
| ACGIH TWA (ppm)                                   | 200 ppm Isopropanol       |
| ACGIH STEL (ppm)                                  | 400 ppm Isopropanol       |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                           |
| OSHA PEL (TWA) (ppm)                              | 400                       |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                           |
| NIOSH REL (TWA) (ppm)                             | 400 ppm Isopropanol       |
| NIOSH REL (STEL) (ppm)                            | 500 ppm Isopropanol       |
| <b>Isopropyl Alcohol (67-63-0)</b>                |                           |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                           |
| Local name  | 2-Propanol                |
| ACGIH TWA (ppm)                                   | 200 ppm                   |
| ACGIH STEL (ppm)                                  | 400 ppm                   |
| Remark (ACGIH)                                    | Eye & URT irr; CNS impair |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                           |
| Local name  | Isopropyl alcohol         |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )               | 980 mg/m <sup>3</sup>     |
| OSHA PEL (TWA) (ppm)                              | 400 ppm                   |

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

#### Hand protection:

Protective gloves

#### Eye protection:

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Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                      |
|---|----------------------|
| Physical state                                  | : Liquid             |
| Appearance                                      | : Liquid.            |
| Colour  | : Black              |
| Odour   | : Solvent-like odour |
| Odour threshold                                 | : No data available  |
| pH  | : No data available  |
| Melting point                                   | : Not applicable     |
| Freezing point                                  | : No data available  |
| Boiling point                                   | : 112.5 °C           |
| Flash point                                     | : 12 °C              |
| Relative evaporation rate (butylacetate=1)      | : No data available  |
| Flammability (solid, gas)                       | : Not applicable.    |
| Vapour pressure                                 | : No data available  |
| Relative vapour density at 20 °C                | : No data available  |
| Relative density                                | : No data available  |
| Solubility                                      | : No data available  |
| Partition coefficient n-octanol/water (Log Pow) | : 0.05               |
| Auto-ignition temperature                       | : No data available  |
| Decomposition temperature                       | : No data available  |
| Viscosity, kinematic                            | : No data available  |
| Viscosity, dynamic                              | : No data available  |
| Explosive limits                                | : 2 – 12.7 vol %     |
| Explosive properties                            | : No data available  |
| Oxidising properties                            | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Brake Anti-Squeal          |          |
|----------------------------|----------|
| LD50 oral rat              | > 5 g/kg |
| LD50 dermal rabbit         | > 2 g/kg |
| LC50 inhalation rat (mg/l) | > 5 mg/l |

| Isopropyl Alcohol (67-63-0) |   |
|-----------------------------|---|
| LD50 oral rat               | 5840 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))                           |
| LD50 dermal rabbit          | 16400 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))               |
| LC50 inhalation rat (ppm)   | > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral)               | 5840 mg/kg bodyweight   |
| ATE US (dermal)             | 16400 mg/kg bodyweight  |

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Skin corrosion/irritation         | : Not classified                     |
| Serious eye damage/irritation     | : Causes serious eye irritation.     |
| Respiratory or skin sensitisation | : Not classified                     |
| Germ cell mutagenicity            | : Not classified                     |
| Carcinogenicity                   | : Not classified                     |
| Reproductive toxicity             | : Not classified                     |
| STOT-single exposure              | : May cause drowsiness or dizziness. |

| Isopropyl Alcohol (67-63-0) |                                    |
|-----------------------------|------------------------------------|
| STOT-single exposure        | May cause drowsiness or dizziness. |

|                                    |                                      |
|------------------------------------|--------------------------------------|
| STOT-repeated exposure             | : Not classified                     |
| Aspiration hazard                  | : Not classified                     |
| Viscosity, kinematic               | : No data available                  |
| Symptoms/effects                   | : May cause drowsiness or dizziness. |
| Symptoms/effects after eye contact | : Eye irritation.                    |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |   |
|-------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
|-------------------|---|

| Brake Anti-Squeal              |   |
|--------------------------------|---|
| LC50 fish 1                    | 5770 – 7450 mg/l 96 hr flow through test, Fathead Minnow ( <i>Pimephales promelas</i> ) |
| LC50 other aquatic organisms 1 | > 10000 mg/l 24 hr static test, Water flea ( <i>Daphnia Magna</i> )                     |

| Isopropyl Alcohol (67-63-0) |  |
|-----------------------------|--|
| LC50 fish 1                 | 9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, <i>Pimephales promelas</i> , Flow-through system, Fresh water, Experimental value, Lethal) |

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### 12.2. Persistence and degradability

| Isopropyl Alcohol (67-63-0)     |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.19 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)    | 2.23 g O <sub>2</sub> /g substance   |
| ThOD                            | 2.4 g O <sub>2</sub> /g substance  |

### 12.3. Bioaccumulative potential

| Brake Anti-Squeal                               |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 |

| Isopropyl Alcohol (67-63-0)                     |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C)        |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4. Mobility in soil

| Isopropyl Alcohol (67-63-0)                     |  |
|---|--|
| Surface tension                                 | 0.021 N/m (25 °C)  |
| Partition coefficient n-octanol/water (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil                                  | Highly mobile in soil.                                       |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### Transportation of Dangerous Goods

#### Transport by sea

Transport document description (IMDG) : UN 1993 FLAMMABLE LIQUID, N.O.S. ( ISOPROPYL ALCOHOL), 3, II  
UN-No. (IMDG) : 1993  
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger  
Limited quantities (IMDG) : 1 L

#### Air transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Isopropyl Alcohol (67-63-0)  |  |
|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Subject to reporting requirements of United States SARA Section 313 |  |

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### 15.2. International regulations

#### CANADA

#### EU-Regulations

#### National regulations

No additional information available

### 15.3. US State regulations

| Component                  | State or local regulations                                 |
|----------------------------|--|
| Isopropyl Alcohol(67-63-0) | U.S. - New Jersey - Right to Know Hazardous Substance List |

## SECTION 16: Other information

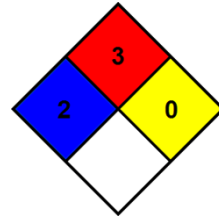
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 02/18/2020

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



#### Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : C

C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*