



# SAFETY DATA SHEET

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Trade name : GEM-X Brake Cleaner Spray

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Cleans the dust and grease on brake parts.

### 1.3. Supplier

#### Manufactured or sold by:

LIKYA TRADE INC.  
200 Burnhamthorpe Road E, Unit 1203  
Mississauga L5A 4L4 ON, CANADA  
Telephone +1 (416) 434-9017  
Email: [ela@likyatrade.com](mailto:ela@likyatrade.com)  
Website: [www.gem-x.ca](http://www.gem-x.ca)

### 1.4. Emergency telephone number (CHEMTREC)

Emergency number : 800-424-9300 90 (Canada)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

|                                                                        |                                                                          |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Aerosol, Category 1                                                    | Extremely flammable aerosol. Pressurized container; may burst if heated. |
| 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) :

Extremely flammable aerosol  
Pressurized container; may burst if heated  
Causes serious eye irritation  
May cause drowsiness or dizziness

Precautionary statements (GHS US) :

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Avoid breathing dust, fume, gas, mist, vapours, spray.  
Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.  
Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).  
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

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

No additional information available

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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                              | Product identifier  | %           | GHS US classification                                                             |
|-------------------------------------------------------------------|---------------------|-------------|-----------------------------------------------------------------------------------|
| acetone; propan-2-one; propanone                                  | CAS-No.: 67-64-1    | ≥ 85 – < 90 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                       |
| propan-2-ol; isopropyl alcohol; isopropanol                       | CAS-No.: 67-63-0    | ≥ 1 – < 5   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                       |
| Carbondioxide                                                     | CAS-No.: 124-38-9   | ≥ 1 – < 5   | Press. Gas (Comp.), H280                                                          |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | CAS-No.: 64742-49-0 | ≥ 1 – < 5   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                  | CAS-No.: 64742-49-0 | ≥ 1 – < 5   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304 |

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 | : Wash skin with plenty of water.                                                                                                                                                |
| 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 inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                                                            |
| Symptoms/effects after eye contact  | : May cause eye irritation. Eye irritation.                                                                                                                                |
| Symptoms/effects after ingestion    | : None under normal conditions. May cause irritation to the digestive tract.                                                                                               |

#### 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   | : DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS THE LEAK CAN BE STOPPED. Dry chemical, CO <sub>2</sub> , or water spray or regular foam. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                                                                                                    |

#### 5.2. Specific hazards arising from the chemical

|                                                  |                                                                                                                   |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Fire hazard                                      | : Extremely flammable aerosol. Pressurised container: May burst if heated. Heating may cause a fire or explosion. |
| Explosion hazard                                 | : Pressurised container: May burst if heated. Explosion risk in case of fire. Heating may cause an explosion.     |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                                                                                    |

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

|                                |                                                                                                                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Keep container tightly closed and away from heat, sparks and flame.                                                                                                                                                                                    |
| Firefighting instructions      | : Fight fire from safe distance and protected location. Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.                                                                                                                 |

### SECTION 6: Accidental release measures

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

|                  |                                                                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Eliminate every possible source of ignition. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



#### 6.1.1. For non-emergency personnel

- |                      |                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                 |
| Emergency procedures | : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.<br>Avoid contact with skin and eyes. |

#### 6.1.2. For emergency responders

- |                      |                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                                                                   |

#### 6.2. Environmental precautions

Avoid release to the environment. Avoid discharge to atmosphere.

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

- |                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| 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

- |                                   |                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.                                                                                                                                                                      |
| Precautions for safe handling     | : Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Prevent the build-up of electrostatic charge. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. |
| 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  | : Keep in a cool, well-ventilated place away from heat. Use only non-sparking tools. Ground/bond container and receiving equipment.                                                                                                                                                                                                                                       |
| Storage conditions  | : Keep cool. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container closed when not in use. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Keep container tightly closed. |
| Packaging materials | : Store always product in container of same material as original container.                                                                                                                                                                                                                                                                                               |

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available



## 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. 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:

Wear recommended personal protective equipment.

|                         |
|-------------------------|
| <b>Hand protection:</b> |
| Protective gloves       |

|                        |
|------------------------|
| <b>Eye protection:</b> |
| Safety glasses         |

|                                   |
|-----------------------------------|
| <b>Skin and body protection:</b>  |
| Wear suitable protective clothing |

|                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection:</b>                                                                                                                                                  |
| In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended |

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : Colourless  
Odour : characteristic  
Odour threshold : No data available  
pH : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : < 23 °C  
Relative evaporation rate : No data available  
(butylacetate=1)  
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) : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive limits : No data available  
Explosive properties : Pressurised container: May burst if heated.  
Oxidising properties : No data available

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Pressurised container: May burst if heated.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. May mass explode in fire. Heating may cause a fire or explosion.

### 10.4. Conditions to avoid

High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Combustible materials.

### 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

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0) |                                                                      |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| LD50 dermal rat                                                                | 2800 – 3100 mg/kg bodyweight Animal: rat, Remarks on results: other: |
| LC50 Inhalation - Rat                                                          | > 25,2 mg/l air Animal: rat                                          |
| ATE US (dermal)                                                                | 2800 mg/kg bodyweight                                                |

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)**

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | > 2000 mg/kg |
| LD50 dermal rabbit    | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5 mg/l     |

**acetone; propan-2-one; propanone (67-64-1)**

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| LD50 oral rat         | 5800 mg/kg bodyweight Animal: rat, Animal sex: female            |
| LC50 Inhalation - Rat | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4 |
| ATE US (oral)         | 5800 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                 |

**propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)**

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

|                       |                                      |
|-----------------------|--------------------------------------|
| Reproductive toxicity | : Not classified                     |
| STOT-single exposure  | : May cause drowsiness or dizziness. |

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)**

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

**propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)**

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

**acetone; propan-2-one; propanone (67-64-1)**

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

|                        |                     |
|------------------------|---------------------|
| STOT-repeated exposure | : Not classified    |
| Aspiration hazard      | : Not classified    |
| Viscosity, kinematic   | : No data available |

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| Viscosity, kinematic | 0,7 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|-----------------------------------------------------------------------------------------------|

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)**

|                      |                         |
|----------------------|-------------------------|
| Viscosity, kinematic | 0,67 mm <sup>2</sup> /s |
|----------------------|-------------------------|

|                                     |                                                                                                                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause drowsiness or dizziness.                                                                                                                                       |
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. May cause drowsiness or dizziness. |
| Symptoms/effects after skin contact | : None under normal conditions.                                                                                                                                            |
| Symptoms/effects after eye contact  | : May cause eye irritation. Eye irritation.                                                                                                                                |
| Symptoms/effects after ingestion    | : None under normal conditions. May cause irritation to the digestive tract.                                                                                               |

**SECTION 12: Ecological information****12.1. Toxicity**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Ecology - general | : Harmful to aquatic life with long lasting effects. |
|-------------------|------------------------------------------------------|

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| LOEC (chronic) | 0,32 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0,17 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

**propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)**

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| LC50 - Fish [1] | 10000 mg/l Test organisms (species): Pimephales promelas |
| LC50 - Fish [2] | 9640 mg/l Test organisms (species): Pimephales promelas  |

**acetone; propan-2-one; propanone (67-64-1)**

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| LC50 - Fish [1]      | 11000 mg/l                                                         |
| EC50 - Crustacea [1] | 7635 mg/l                                                          |
| LOEC (chronic)       | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic)       | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

**12.2. Persistence and degradability****Brake Cleaner Low-Voc AMK-01**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

**Carbondioxide (124-38-9)**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|





|                                                                      |                    |
|----------------------------------------------------------------------|--------------------|
| <b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)</b> |                    |
| Persistence and degradability                                        | Rapidly degradable |

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| <b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b> |                    |
| Persistence and degradability                                | Rapidly degradable |

|                                                   |                    |
|---------------------------------------------------|--------------------|
| <b>acetone; propan-2-one; propanone (67-64-1)</b> |                    |
| Persistence and degradability                     | Rapidly degradable |

### 12.3. Bioaccumulative potential

|                                                   |       |
|---------------------------------------------------|-------|
| <b>acetone; propan-2-one; propanone (67-64-1)</b> |       |
| Partition coefficient n-octanol/water (Log Pow)   | -0,24 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                                            |                                                                                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations. Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015. |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                             |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                                                                                |
| Additional information                     | : Do not re-use empty containers.                                                                                                                         |
| Ecological waste information               | : Avoid release to the environment.                                                                                                                       |

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (DOT)  | : Not applicable |
| UN-No. (TDG)  | : Not applicable |
| UN-No. (IMDG) | : 1950           |
| UN-No. (IATA) | : 1950           |

### 14.2. UN proper shipping name

|                            |                  |
|----------------------------|------------------|
| Proper Shipping Name (DOT) | : Not applicable |
|----------------------------|------------------|



Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : AEROSOLS  
Proper Shipping Name (IATA) : Aerosols, flammable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

#### TDG

Transport hazard class(es) (TDG) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : 2.1

Danger labels (IMDG) : 2.1



#### IATA

Transport hazard class(es) (IATA) : 2.1

Danger labels (IATA) : 2.1



### 14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Not applicable

#### TDG

Not applicable

#### IMDG

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200

Special packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None

Stowage and handling (IMDG) : SW1, SW22  
 Segregation (IMDG) : SG69

**IATA**

PCA Excepted quantities (IATA) : E0  
 PCA Limited quantities (IATA) : Y203  
 PCA limited quantity max net quantity (IATA) : 30kgG  
 PCA packing instructions (IATA) : 203  
 PCA max net quantity (IATA) : 75kg  
 CAO packing instructions (IATA) : 203  
 CAO max net quantity (IATA) : 150kg  
 Special provisions (IATA) : A145, A167, A802  
 ERG code (IATA) : 10L

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

Not applicable

**SECTION 15: Regulatory information****15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                                             |                 |            |
|---------------------------------------------|-----------------|------------|
| propan-2-ol; isopropyl alcohol; isopropanol | CAS-No. 67-63-0 | ≥ 1 – < 5% |
|---------------------------------------------|-----------------|------------|

**acetone; propan-2-one; propanone (67-64-1)**

|           |         |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

**15.2. International regulations****CANADA****Carbondioxide (124-38-9)**

Listed on the Canadian DSL (Domestic Substances List)

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

Listed on the Canadian DSL (Domestic Substances List)

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)**

Listed on the Canadian DSL (Domestic Substances List)

**propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)**

Listed on the Canadian DSL (Domestic Substances List)



**acetone; propan-2-one; propanone (67-64-1)**

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

**Carbondioxide (124-38-9)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane (64742-49-0)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

**propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

**acetone; propan-2-one; propanone (67-64-1)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component                                            | State or local regulations                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carbondioxide(124-38-9)                              | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List                                                                                           |
| propan-2-ol; isopropyl alcohol; isopropanol(67-63-0) | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |
| acetone; propan-2-one; propanone(67-64-1)            | U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List |

#### SECTION 16: Other information

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



Data sources

: Classification according to Regulation (EC) No. 1272/2008 [CLP].  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Other information

: Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents.

| Abbreviations and acronyms |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                        | Acute Toxicity Estimate                                                                         |
| BCF                        | Bioconcentration factor                                                                         |
| BLV                        | Biological limit value                                                                          |
| BOD                        | Biochemical oxygen demand (BOD)                                                                 |
| COD                        | Chemical oxygen demand (COD)                                                                    |
| DMEL                       | Derived Minimal Effect level                                                                    |
| DNEL                       | Derived-No Effect Level                                                                         |
| EC-No.                     | European Community number                                                                       |
| EC50                       | Median effective concentration                                                                  |
| EN                         | European Standard                                                                               |
| IARC                       | International Agency for Research on Cancer                                                     |
| IATA                       | International Air Transport Association                                                         |
| IMDG                       | International Maritime Dangerous Goods                                                          |
| LC50                       | Median lethal concentration                                                                     |
| LD50                       | Median lethal dose                                                                              |
| LOAEL                      | Lowest Observed Adverse Effect Level                                                            |
| NOAEC                      | No-Observed Adverse Effect Concentration                                                        |
| NOAEL                      | No-Observed Adverse Effect Level                                                                |
| NOEC                       | No-Observed Effect Concentration                                                                |
| OECD                       | Organisation for Economic Co-operation and Development                                          |
| OEL                        | Occupational Exposure Limit                                                                     |
| PBT                        | Persistent Bioaccumulative Toxic                                                                |
| PNEC                       | Predicted No-Effect Concentration                                                               |



**Abbreviations and acronyms**

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet                                                            |
| STP     | Sewage treatment plant                                                       |
| ThOD    | Theoretical oxygen demand (ThOD)                                             |
| TLM     | Median Tolerance Limit                                                       |
| VOC     | Volatile Organic Compounds                                                   |
| CAS-No. | Chemical Abstract Service number                                             |
| N.O.S.  | Not Otherwise Specified                                                      |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disruptor                                                          |

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