

## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Isopropanol 99%  
**Product Use Description** : Alcohol solvent.

#### Manufacturer or supplier's details

**Company** : Famis Inc  
**Address** : 5689 NW 35<sup>th</sup> court  
Miami FL, 33142  
United States of America

**Emergency telephone number:**  
Transport North America: CHEMTREC 800.424.9300

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 2  
Eye irritation : Category 2A  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

#### GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open



# Safety Data Sheet

## Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

### Potential Health Effects

#### Carcinogenicity:

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Emergency Overview

<b>WARNING!</b>	
Appearance	liquid
Colour	colourless, clear
Odour	alcohol-like

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-63-0	Isopropyl alcohol	90 - 100
64-17-5	Ethanol	0.1 - 1

**Synonyms** : Isopropanol Anhydrous/Isopropyl Alcohol ACS



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Grade/Isopropyl Alcohol/TT I 735 Grade A/Velvasol  
425/Value Grade Isopropanol, TT I 735A Grade B

### SECTION 4. FIRST AID MEASURES

- |                         |  |
|-------------------------|--|
| General advice          | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.           |
| If inhaled              | : Consult a physician after significant exposure.<br>If unconscious place in recovery position and seek medical advice.                    |
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.        |

### SECTION 5. FIREFIGHTING MEASURES

- |                                      |   |
|--------------------------------------|---|
| Suitable extinguishing media         | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical   |
| Unsuitable extinguishing media       | : High volume water jet   |
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products        | : Carbon oxides   |
| Specific extinguishing methods       | : Use a water spray to cool fully closed containers.  |
| Further information                  | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing wa- |



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Special protective equipment for firefighters : ter must be disposed of in accordance with local regulations.  
: For safety reasons in case of fire, cans should be stored separately in closed containments.  
: Wear self-contained breathing apparatus for firefighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:**  
Flammable Liquid Class IB

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.

# Safety Data Sheet

## Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Conditions for safe storage : Dispose of rinse water in accordance with local and national regulations.  
 : No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
67-63-0	Isopropyl alcohol	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA P0
		STEL	500 ppm 1,225 mg/m <sup>3</sup>	OSHA P0

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Isopropyl alcohol	67-63-0	Acetone	In urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
 In the case of vapour formation use a respirator with an approved filter.

## Safety Data Sheet

### Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Hand protection Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless, clear
Odour	: alcohol-like
Odour Threshold	: 200 ppm
pH	: No data available
Freezing Point (Melting point/freezing point)	: -88 °C (-126 °F)
Boiling Point (Boiling point/boiling range)	: 82 °C (180 °F)
Flash point	: 12 °C (54 °F)
Evaporation rate	: 1.2 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 12.7 %(V)



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Lower explosion limit	: 2 %(V)
Vapour pressure	: 32 mmHg @ 20 °C (68 °F)
Relative vapour density	: 2 @ 20 °C (68 °F) AIR=1
Relative density	: 0.79 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 0.79 g/cm <sup>3</sup> @ 20 °C (68 °F)  6.59 lb/gal @ 20 °C (68 °F)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other sol- vents	: No data available
Partition coefficient: n- octanol/water	: log Pow: 0.05 @ 25 °C (77 °F)
Auto-ignition temperature	: 399 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 2.4 mPa.s @ 20 °C (68 °F)
Viscosity, kinematic	: 2.6 mm <sup>2</sup> /s @ 25 °C (77 °F)

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Incompatible materials	: Aldehydes Chlorine Ethylene oxide halogens isocyanates Strong acids strong oxidizing agents
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

##### **Components:**

###### **67-63-0:**

Acute oral toxicity : LD50 (rat): 5,045 mg/kg

Acute inhalation toxicity : LC50 (rat): 16000 ppm

Acute dermal toxicity : LD50 (rabbit): 12,800 mg/kg

###### **64-17-5:**

Acute oral toxicity : LD50 (rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (rat): 124.7 mg/l

Acute dermal toxicity : Remarks: No data available

#### Skin corrosion/irritation

##### **Product:**

Remarks: May cause skin irritation in susceptible persons.





## Safety Data Sheet

### Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

#### **Components:**

##### **67-63-0:**

Species: rabbit

Result: Mild skin irritation

##### **64-17-5:**

Species: rabbit

Result: No skin irritation

#### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Eye irritation

#### **Components:**

##### **67-63-0:**

Species: rabbit

Result: Irritating to eyes.

##### **64-17-5:**

Species: rabbit

Result: Irritating to eyes.

#### **Respiratory or skin sensitisation**

#### **Components:**

##### **64-17-5:**

Test Type: lymph node assay

Species: mouse

Method: OECD Test Guideline 429

GLP: No data available

Remarks: Did not cause sensitisation on laboratory animals.

#### **Germ cell mutagenicity**

#### **Components:**

##### **67-63-0:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- : Did not show mutagenic effects in animal experi-



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Assessment	ments.
<b>64-17-5:</b> Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Test species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: No data available
Genotoxicity in vivo	: Test Type: Dominant lethal assay Test species: mouse (male) Application Route: Oral Dose: 10 or 40% ethanol in water Method: OECD Test Guideline 478 Result: negative GLP: No data available
Germ cell mutagenicity- Assessment	: Mutagenicity classification not possible from current data

### Carcinogenicity

#### Components:

**67-63-0:** Species:  
rat NOAEL: 5,000  
ppm

Method: OECD Test Guideline 451

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**64-17-5:**  
Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### Reproductive toxicity

#### Components:

**67-63-0:**  
Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

**64-17-5:**  
Effects on fertility : Test Type: Two-generation study  
Species: mouse, male and female



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Application Route: oral  
Dose: 5, 10 and 15% v/v in water  
General Toxicity - Parent: NOAEL: 15 % diet  
General Toxicity F1: NOAEL: 10 % diet  
Symptoms: reduced litter size Reduced sperm motility in F1 generation  
Method: OECD Test Guideline 416  
GLP: No data available

Effects on foetal development : Species: rat  
Application Route: Inhalation  
Dose: 10,000, 16,000 or 20,000 ppm  
General Toxicity Maternal: NOAEL: 16,000 ppm  
Teratogenicity: NOAEL: > 20,000 ppm  
Symptoms: No malformations were observed.  
Method: OECD Test Guideline 414  
GLP: No data available

Reproductive toxicity - Assessment : Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

### STOT - single exposure

**Product:** No data available

#### **Components:**

67-63-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64-17-5:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	



# Safety Data Sheet

## Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Inhalation	Respiratory system	May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.	
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### STOT - repeated exposure

**Product:** No data available

#### **Components:**

**67-63-0:** No data available

**64-17-5:** No data available

### Repeated dose toxicity

#### **Components:**

##### **64-17-5:**

Species: rat, male and female  
NOAEL: 10 ml/kg  
Application Route: Oral  
Exposure time: 7 or 14 wk  
Number of exposures: 2 times/d, 7 d/wk  
Dose: 5, 10, 20ml/kg of 16.25% etoh  
Method: OECD Test Guideline 408  
GLP: yes

### Aspiration toxicity

#### **Components:**

##### **64-17-5:**

No aspiration toxicity classification

### Further information

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## Safety Data Sheet

### Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

#### SECTION 12. ECOLOGICAL INFORMATION

##### Ecotoxicity

###### **Components:**

###### **67-63-0:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h
- Toxicity to algae : Remarks: No data available

###### **64-17-5:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia): 5,012 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: No data available

##### Persistence and degradability

###### **Components:**

###### **64-17-5:**

- Biodegradability : Result: Readily biodegradable.

##### Bioaccumulative potential

###### **Components:**

###### **64-17-5:**

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.



## Safety Data Sheet

### Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

#### Mobility in soil

No data available

#### Other adverse effects

No data available

#### **Product:**

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information

: No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

: Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction

Contaminated packaging

: Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

**IATA (International Air Transport Association):** UN1219, Isopropanol, 3, II, Flash Point:12 °C(54 °F)

**IMDG (International Maritime Dangerous Goods):** UN1219, ISOPROPANOL, 3, II

**DOT (Department of Transportation):** UN1219, Isopropanol, 3, II



# Safety Data Sheet

## Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

### SECTION 15. REGULATORY INFORMATION

- OSHA Hazards** : Flammable liquid, Moderate eye irritant
- WHMIS Classification** : B2: Flammable liquid  
D2B: Toxic Material Causing Other Toxic Effects

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

- SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-63-0	Isopropyl alcohol	100 %
64-17-5	Ethanol	0.1 %
71-23-8	n-Propanol	0.015 %

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know



# Safety Data Sheet

## Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

67-63-0 Isopropyl alcohol 90 - 100 %

### Pennsylvania Right To Know

67-63-0 Isopropyl alcohol 90 - 100 %

### New Jersey Right To Know

67-63-0 Isopropyl alcohol 90 - 100 %

64-17-5 Ethanol 0.1 - 1 %

### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### The components of this product are reported in the following inventories:

<b>Switzerland. New notified substances and declared preparations</b>	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>New Zealand. Inventory of Chemical Substances</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)



# Safety Data Sheet

## Isopropanol 99%

Version 1.2

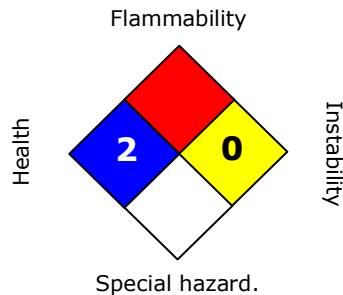
Revision Date: 03/11/2015

<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)

### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**Legacy MSDS:** R0001444

**Material number:**



## Safety Data Sheet Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

16076497, 16070429, 16067144, 16062664, 16062658, 16056234, 16056233, 16056232, 16056231, 16056230, 16056236, 16056235, 16056229, 16056228, 16061245, 16053485, 16052635, 16049720, 16030493, 16030184, 16020147, 16010158, 772812, 772811, 749963, 744289, 744288, 744287, 737212, 728214, 717444, 713300, 667236, 667235, 638919, 628350, 622971, 620243, 607424, 604761, 598538, 584582, 574318, 568108, 554273, 554170, 554086, 554045, 554336, 554300, 550689, 549773, 554335, 554291, 554272, 554257, 554206, 554169, 554149, 554085, 554371, 556671, 547315, 547297, 551361, 544760, 508619, 508618, 508414, 55018, 73136, 55939, 55835, 56756, 105079, 71262, 88592, 54882, 104163, 56760, 88703, 88700, 105097, 87779, 56758, 71396, 56752, 73132, 71401, 56759, 55942, 106250, 152309, 136796, 166706, 89678, 71489, 70529, 89675, 55109

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials



**Safety Data Sheet**  
**Isopropanol 99%**

Version 1.2

Revision Date: 03/11/2015

<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration 50%	