

Safety Data Sheet

WM 3928 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 : Wesmar Products
Address : 10729 47th Ave W
Mukilteo, WA 98275

Emergency telephone number:
Health/Transport: PERS Chemical 1-800-728-2482

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

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

SECTION 5. FIREFIGHTING MEASURES

- | | |
|--------------------------------------|---|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) 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. Fire residues and contaminated fire extinguishing wa- |

Safety Data Sheet

Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for fire-fighting 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

Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : 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 ³ | NIOSH REL |
| | | ST | 500 ppm 1,225 mg/m ³ | NIOSH REL |
| | | TWA | 400 ppm 980 mg/m ³ | OSHA Z-1 |
| | | TWA | 400 ppm 980 mg/m ³ | OSHA P0 |
| | | STEL | 500 ppm 1,225 mg/m ³ | 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

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|----------------------------|---|
| 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. |

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 ³ @ 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 ² /s @ 25 °C (77 °F) |

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 experiments

Safety Data Sheet

Isopropanol 99%

Version 1.2

Revision Date: 03/11/2015

Assessment

ments.

64-17-5:

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. | |
|------------|--------------------|---|--|

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, contact NEXEO's Environmental Services Group at 800-637-7922.

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:

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

Safety Data Sheet

Isopropanol 99%

Version 1.2

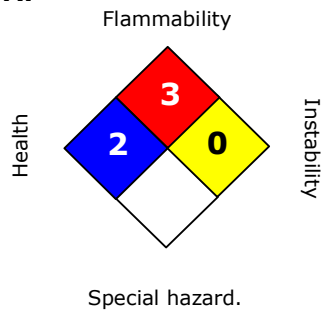
Revision Date: 03/11/2015

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

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. This SDS has been prepared by Wesmar Products.

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

| Key or legend to abbreviations and acronyms used in the safety data sheet | | | |
|--|--|-------|--|
| 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% | |