

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **D-2 Emulsion**
Product Description • White liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Water-based emulsion

1.3 Details of the supplier of the safety data sheet

Manufacturer • IKONICS Corporation
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

Telephone (General) • (218) 628-2217
Telephone (General) • (800) 328-4261 - Toll free

1.4 Emergency telephone number

Chemtrec • 1-800-424-9300 - Within USA and Canada
• +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP • Not classified

2.2 Label Elements

CLP

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP • No data available

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Seventh Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Not classified

2.2 Label elements

UN GHS

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS • No data available

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

2.2 Label elements

OSHA HCS 2012

Precautionary statements

Prevention • Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF ON SKIN: Wash with plenty of soap and water. - P302+P352

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012 • No data available

Canada

According to WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Not classified

2.2 Label elements

WHMIS 2015

Precautionary statements

Prevention • Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF ON SKIN: Wash with plenty of soap and water. - P302+P352

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P341

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

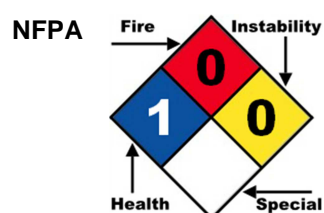
Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

WHMIS 2015

- No data available

2.4 Other information



Section 3 - Composition/Information on Ingredients

3.1 Substances

3.2 Mixtures

| Hazardous Components | | | | |
|----------------------|---|-----------|--|---|
| Chemical Name | Identifiers | %(weight) | LD50/LC50 | Classifications According to Regulation/Directive |
| Isopropyl alcohol | CAS:67-63-0 EC Number:200-661-7 UN:UN1219 EINECS:200-661-7 | 8.1% | Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg | GHS / CLP / OSHA / WHMIS: Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3: Narc. |

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.

Skin • IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye • IF IN EYES: 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.

Ingestion • If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- No data available

4.3 Indication of any immediate medical attention and special treatment needed

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media • No data available

Firefighting Procedures • Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
Keep unauthorized personnel away.
Ventilate closed spaces before entering.
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Material may burn, but does not ignite readily.

Hazardous Combustion Products • Products of combustion include: carbon oxides (CO_x).

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions

- No data available

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Use appropriate Personal Protective Equipment (PPE)
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Keep container closed when not in use. Store away from extreme heat. Do not freeze.
Ventilate enclosed areas.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

| Exposure Limits/Guidelines | | | | | | |
|-------------------------------------|----------|--|--|--|--|---|
| | Result | ACGIH | Argentina | Australia | Belgium | Brazil |
| Isopropyl alcohol (67-63-0) | STELs | 400 ppm STEL | 500 ppm STEL [CMP-CPT] | 500 ppm STEL; 1230 mg/m ³ STEL | 400 ppm STEL; 1000 mg/m ³ STEL | Not established |
| | TWAs | 200 ppm TWA | 400 ppm TWA [CMP] | 400 ppm TWA; 983 mg/m ³ TWA | 200 ppm TWA; 500 mg/m ³ TWA | 310 ppm TWA LT; 765 mg/m ³ TWA LT |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada Alberta | Canada British Columbia | Canada Manitoba | Canada New Brunswick | Canada Northwest Territories |
| Isopropyl alcohol (67-63-0) | STELs | 400 ppm STEL; 984 mg/m ³ STEL | 400 ppm STEL | 400 ppm STEL | 500 ppm STEL; 1230 mg/m ³ STEL | 500 ppm STEL; 1228 mg/m ³ STEL |
| | TWAs | 200 ppm TWA; 492 mg/m ³ TWA | 200 ppm TWA | 200 ppm TWA | 400 ppm TWA; 983 mg/m ³ TWA | 400 ppm TWA; 983 mg/m ³ TWA |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada Nova Scotia | Canada Nunavut | Canada Ontario | Canada Quebec | Canada Saskatchewan |
| Isopropyl alcohol (67-63-0) | STELs | 400 ppm STEL | 500 ppm STEL; 1228 mg/m ³ STEL | 400 ppm STEL | 500 ppm STEV; 1230 mg/m ³ STEV | 400 ppm STEL |
| | TWAs | 200 ppm TWA | 400 ppm TWA; 983 mg/m ³ TWA | 200 ppm TWA | 400 ppm TWAEV; 985 mg/m ³ TWAEV | 200 ppm TWA |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Canada Yukon | Chile | China | Denmark | Egypt |
| Isopropyl alcohol (67-63-0) | STELs | 500 ppm STEL; 1225 mg/m ³ STEL | 500 ppm STEL LPT; 1230 mg/m ³ STEL LPT | 700 mg/m ³ STEL | Not established | 500 ppm STEL; 1230 mg/m ³ STEL |
| | TWAs | 400 ppm TWA; 980 mg/m ³ TWA | 320 ppm TWA LPP; 786 mg/m ³ TWA LPP | 350 mg/m ³ TWA | 200 ppm TWA; 490 mg/m ³ TWA | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Finland | France | Germany DFG | Germany TRGS | Hong Kong |
| Isopropyl alcohol (67-63-0) | STELs | 250 ppm STEL; 620 mg/m ³ STEL | 400 ppm STEL [VLCT]; 980 mg/m ³ STEL [VLCT] | Not established | Not established | 500 ppm STEL; 1230 mg/m ³ STEL |
| | TWAs | 200 ppm TWA; 500 mg/m ³ TWA | Not established | Not established | 200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 500 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2) | Not established |
| | Ceilings | Not established | Not established | 400 ppm Peak; 1000 mg/m ³ Peak | Not established | Not established |
| | MAKs | Not established | Not established | 200 ppm TWA MAK; 500 mg/m ³ TWA MAK | Not established | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Indonesia | Ireland | Japan | Korea | Mexico |
| Isopropyl alcohol (67-63-0) | Ceilings | Not established | Not established | 400 ppm Ceiling; 980 mg/m ³ Ceiling | Not established | Not established |
| | STELs | Not established | 400 ppm STEL | Not established | 400 ppm STEL; 980 mg/m ³ STEL | 500 ppm STEL [LMPE-CTI]; 1225 |

| | | | | | | mg/m3 STEL [LMPE-CT] |
|-------------------------------------|-------------------------------|--|-------------------------------|---|-------------------------------|--|
| | TWAs | 400 ppm TWA; 983 mg/m3 TWA | 200 ppm TWA | Not established | 200 ppm TWA; 480 mg/m3 TWA | 400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE-PPT |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | New Zealand | NIOSH | Norway | OSHA | Philippines |
| Isopropyl alcohol (67-63-0) | TWAs | 400 ppm TWA; 983 mg/m3 TWA | 400 ppm TWA; 980 mg/m3 TWA | 100 ppm TWA; 245 mg/m3 TWA | 400 ppm TWA; 980 mg/m3 TWA | 400 ppm TWA; 980 mg/m3 TWA |
| | STELs | 500 ppm STEL; 1230 mg/m3 STEL | 500 ppm STEL; 1225 mg/m3 STEL | Not established | Not established | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Poland | Portugal | Russia | Singapore | South Africa |
| Isopropyl alcohol (67-63-0) | STELs | 1200 mg/m3 STEL [NDSCh] | 400 ppm STEL [VLE-CD] | 50 mg/m3 STEL (vapor) | 500 ppm STEL; 1230 mg/m3 STEL | 500 ppm STEL; 1225 mg/m3 STEL |
| | TWAs | 900 mg/m3 TWA [NDS] | 200 ppm TWA [VLE-MP] | 10 mg/m3 TWA (vapor) | 400 ppm PEL; 983 mg/m3 PEL | 400 ppm TWA; 960 mg/m3 TWA; 980 mg/m3 TWA (regulated under Propane-2-ol) |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | Spain | Sweden | Switzerland | Taiwan | Venezuela |
| Isopropyl alcohol (67-63-0) | MAKs | Not established | Not established | 200 ppm TWA [MAK]; 500 mg/m3 TWA [MAK] | Not established | Not established |
| | STELs | 400 ppm STEL [VLA-EC]; 1000 mg/m3 STEL [VLA-EC] | 250 ppm STV; 600 mg/m3 STV | 400 ppm STEL [KZW]; 1000 mg/m3 STEL [KZW] | Not established | 500 ppm STEL [LEB] |
| | TWAs | 200 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound); 500 mg/m3 TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound) | 150 ppm LLV; 350 mg/m3 LLV | Not established | 400 ppm TWA; 983 mg/m3 TWA | 400 ppm TWA [CAP] |
| | Biological Limit Values (BLV) | 40 mg/L urine end of workweek Acetone (1,F,I) | Not established | Not established | Not established | Not established |

Exposure Control Notations

Switzerland

•Isopropyl alcohol (67-63-0): **Developmental Risk Groups:** (Developmental Risk Group C)

Portugal

•Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Singapore

•Isopropyl alcohol (67-63-0): **Odour Threshold - High:** (490 mg/m3) | **Odour Threshold - Low:** (8 mg/m3) | **Irritation:** (490 mg/m3)

South Africa

•Isopropyl alcohol (67-63-0): **Skin:** (Skin Notation)

Brazil

•Isopropyl alcohol (67-63-0): **Skin:** (skin designation)

Ireland

- Isopropyl alcohol (67-63-0): **Skin:** (Potential for cutaneous absorption)
- ACGIH**
- Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Germany DFG**
- Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental

Switzerland

- Isopropyl alcohol (67-63-0): **Biological Limit Values:** (25 mg/L Medium: urine Time: end of shift Parameter: Acetone; 25 mg/L Medium: whole blood Time: end of shift Parameter: Acetone)

Argentina

- Isopropyl alcohol (67-63-0): **BEIs:** (2 mg/g Creatinine urine Acetone)

ACGIH

- Isopropyl alcohol (67-63-0): **BEIs:** (40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)

Germany TRGS

- Isopropyl alcohol (67-63-0): **BELs:** (50 mg/L Medium: whole blood Time: end of shift Parameter: Acetone; 50 mg/L Medium: urine Time: end of shift Parameter: Acetone)

8.2 Exposure controls

Engineering

Measures/Controls

- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

- Wear protective gloves - rubber or neoprene.

Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Environmental Exposure Controls

- No data available

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

| Material Description | | | |
|----------------------------------|---|------------------------|-------------------|
| Physical Form | Liquid | Appearance/Description | Viscous liquid. |
| Color | White | Odor | Mild |
| Taste | Not relevant | Odor Threshold | No data available |
| Physical and Chemical Properties | Not relevant | | |
| General Properties | | | |
| Boiling Point | 100 C(212 F) | Melting Point | Not relevant |
| Decomposition Temperature | Not relevant | pH | No data available |
| Density | 8.7 lbs/gal | Water Solubility | Miscible |
| Viscosity | 5300-7300 Centipoise (cPs, cP) or mPas @ 25 C(77 F) | Explosive Properties | Not relevant |
| Oxidizing Properties: | Not relevant | | |
| Volatility | | | |
| Vapor Pressure | Not relevant | Vapor Density | Not relevant |
| Evaporation Rate | Not relevant | VOC (Vol.) | 81 g/L |
| Volatiles (Wt.) | 80 % | | |
| Flammability | | | |

| | | | |
|---------------------------------------|-------------------|-------------------------------------|-------------------|
| Flash Point | Not measurable | UEL | Not relevant |
| LEL | Not relevant | Autoignition | Not relevant |
| Flammability (solid, gas) | Not relevant | | |
| Environmental | | | |
| Half-Life | No data available | Octanol/Water Partition coefficient | No data available |
| Coefficient of water/oil distribution | No data available | Bioaccumulation Factor | No data available |
| Bioconcentration Factor | No data available | Biochemical Oxygen Demand BOD/BOD5 | No data available |
| Chemical Oxygen Demand | No data available | Persistence | No data available |
| Degradation | No data available | | |

9.2 Other Information

- No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Direct sunlight. Excess heat. Avoid freezing.

10.5 Incompatible materials

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- Hazardous decomposition products formed under fire conditions - carbon oxides (COx). No decomposition is expected under normal storage and use conditions.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Component Name | CAS | Data |
|--------------------------|---------|---|
| Isopropyl alcohol (8.1%) | 67-63-0 | Acute Toxicity: orl-rat LD50:5000 mg/kg; ihl-rat LC50:16000 ppm/8H; skn-rbt LD50:12800 mg/kg; Irritation: eye-rbt 100 mg/24H MOD |

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Eye

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No specific information available.

Section 12 - Ecological Information

12.1 Toxicity

- No data available

12.2 Persistence and degradability

- No data available

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in Soil

- No data available

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of container in accordance with local, regional, national, and/or international regulations.

13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

Section 14 - Transport Information

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT | NDA | NDA | NDA | NDA | NDA |
| IMO/IMDG | NDA | NDA | NDA | NDA | NDA |
| IATA/ICAO | NDA | NDA | NDA | NDA | NDA |

14.6 Special precautions for user

- None specified.

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

- Not relevant.

14.8 Other information

- DOT • Not regulated.
- IMO/IMDG • Not regulated.
- IATA/ICAO • Not regulated.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Not classified

| State Right To Know | | | | |
|---------------------|---------|-----|-----|-----|
| Component | CAS | MA | NJ | PA |
| Isopropyl alcohol | 67-63-0 | Yes | Yes | Yes |

| Inventory | | | | | | |
|-------------------|---------|----------------|------------|-------|-----------|------------|
| Component | CAS | Australia AICS | Canada DSL | China | EU EINECS | Japan ENCS |
| Isopropyl alcohol | 67-63-0 | Yes | Yes | Yes | Yes | Yes |

| Inventory (Con't.) | | | | | |
|--------------------|---------|------------|-------------|-------------------|------|
| Component | CAS | Korea KECL | New Zealand | Philippines PICCS | TSCA |
| Isopropyl alcohol | 67-63-0 | Yes | Yes | Yes | Yes |

Australia

Labor

Australia - High Volume Industrial Chemicals List

- Isopropyl alcohol 67-63-0 8.1%

Australia - List of Designated Hazardous Substances - Classification

- Isopropyl alcohol 67-63-0 8.1% F, Xi R11, R36, R67

Environment

Australia - Priority Existing Chemical Program

- Isopropyl alcohol 67-63-0 8.1% Candidate chemical

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Isopropyl alcohol 67-63-0 8.1% B2, D2B (including 70%)

Canada - WHMIS - Ingredient Disclosure List

- Isopropyl alcohol 67-63-0 8.1% 1 %

Canada Alberta

Environment

Canada - Alberta - Ambient Air Quality Objectives

- Isopropyl alcohol 67-63-0 8.1% 3190 ppbv 1 hour average; 7850 µg/m3 1 hour average

China

Other

China - Dangerous Goods List

- Isopropyl alcohol 67-63-0 8.1% UN1219 PG = II

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- Isopropyl alcohol 67-63-0 8.1% F; R11 Xi; R36 R67

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

- Isopropyl alcohol 67-63-0 8.1% F Xi R:11-36-67 S:(2)-7-16-24/25-26

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

- Isopropyl alcohol 67-63-0 8.1% S:(2)-7-16-24/25-26

EU - Existing Substance Regulation (793/93/EEC) - Evaluation of Existing HPV Chemicals (REPEALED)

- Isopropyl alcohol 67-63-0 8.1%

Germany

Environment

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

- Isopropyl alcohol 67-63-0 8.1% ID Number 135, hazard class 1 - low hazard to waters

Hong Kong

Labor

Hong Kong - Dangerous Substances Regulations - Classification

- Isopropyl alcohol 67-63-0 8.1% Flammable

Hong Kong - Dangerous Substances Regulations - Particular Risks

- Isopropyl alcohol 67-63-0 8.1% R-11

Hong Kong - Dangerous Substances Regulations - Safety Precautions

- Isopropyl alcohol 67-63-0 8.1% S-6/8, S-13

Other

Hong Kong - Dangerous Goods - Category 5 - Substances Giving Off Flammable Vapour

- Isopropyl alcohol 67-63-0 8.1% Class 1, Division 2

India

Environment

India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals

- Isopropyl alcohol 67-63-0 8.1%

Japan

Labor

Japan - ISHL Dangerous Substances

- Isopropyl alcohol 67-63-0 8.1% Flammable substance

Japan - ISHL Harmful Substances Requiring Workers to Subject to Medical Exams

- Isopropyl alcohol 67-63-0 8.1% (when produced and handled indoors)

Japan - ISHL Harmful Substances Whose Names Are to be Indicated on the Label

- Isopropyl alcohol 67-63-0 8.1% >1 % weight

Japan - ISHL Notifiable Substances

- Isopropyl alcohol 67-63-0 8.1% >0.1 % weight [Table 9, 494] (listed under Propyl alcohol)

Japan - ISHL Prevention of Organic Solvent Poisoning

- Isopropyl alcohol 67-63-0 8.1% Class 2

Environment

Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

- Isopropyl alcohol 67-63-0 8.1% 2-(8)-319

Other

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

- Isopropyl alcohol 67-63-0 8.1% Decomposable

Japan - Fire Service Law - Hazardous Materials

- Isopropyl alcohol 67-63-0 8.1% Group 4 - Flammable liquids II (listed under Alcohols)

Japan - ISHL Working Environment Evaluation Standards - Administrative Control Levels

- Isopropyl alcohol 67-63-0 8.1% 200 ppm ACL

Mexico

Other

Mexico - Hazard Classifications

- Isopropyl alcohol 67-63-0 8.1% Hazard Class = 3 PG = II UN1219

Mexico - Regulated Substances

- Isopropyl alcohol 67-63-0 8.1% UN1219

Singapore

Environment

Singapore - Petroleum and Flammable Materials - Hazard Classes

- Isopropyl alcohol 67-63-0 8.1% Hazard Class = 3

Singapore - Petroleum and Flammable Materials - Regulated Products

- Isopropyl alcohol 67-63-0 8.1% SCDIPA1219L2

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Isopropyl alcohol 67-63-0 8.1%

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3 Other Information

- California Proposition 65: This product can expose you to chemicals known to the State of California to cause cancer:
1,4-Dioxane CAS #123-91-1 <0.00012%

Section 16 - Other Information

Relevant Phrases (code & full text)

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Classification method for mixtures** • Calculation method.
- Last Revision Date** • 22 January 2013
- Preparation Date** • 03 August 2018
- Other Information** • Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
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