SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 09-Mar-2020 Revision Date 09-Mar-2020 Revision Number 1

1. Identification

Product identifier

Product Name Corcraft Hand Sanitizer Pre Mix

Other means of identification

UN/ID no UN1993

Recommended use of the chemical and restrictions on use

Recommended use Hand sanitizer

Restrictions on useNo information available.

Details of the supplier of the safety data sheet

Supplier Address

Surpass Chemical 1254 Broadway Albany, NY 12204 +1 518-434-8101

E-mail customerservice@surpasschemical.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

| Serious eye damage/eye irritation | Category 2A |
|--|-------------|
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable liquids | Category 2 |

Label elements

Danger

Hazard statements

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



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Keep cool.

Precautionary Statements - Response

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.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Fire

In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other information

May be harmful if swallowed.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------|------------|----------|---|---|
| Isopropyl alcohol | 67-63-0 | 75 | - | - |
| Water | 7732-18-5 | 23.4194 | - | - |
| Glycerin | 56-81-5 | 1.39998 | - | - |
| Dipropylene glycol | 25265-71-8 | 0.085 | - | - |
| Hydrogen peroxide | 7722-84-1 | 0.05313 | - | - |
| Citral | 5392-40-5 | 0.0425 | - | - |

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep Eve contact

> eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Ingestion

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

> involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor **Symptoms**

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomitina.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Do not use a solid water stream as it may scatter and spread fire. Unsuitable extinguishing media

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray, Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor **Methods for containment**

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|-------------------|---------------|--|------------------------------|
| Isopropyl alcohol | STEL: 400 ppm | TWA: 400 ppm | IDLH: 2000 ppm |
| 67-63-0 | TWA: 200 ppm | TWA: 980 mg/m ³ | TWA: 400 ppm |
| | | (vacated) TWA: 400 ppm | TWA: 980 mg/m ³ |
| | | (vacated) TWA: 980 mg/m ³ | STEL: 500 ppm |
| | | (vacated) STEL: 500 ppm | STEL: 1225 mg/m ³ |
| | | (vacated) STEL: 1225 mg/m ³ | - |
| Glycerin | - | TWA: 15 mg/m ³ mist, total | - |
| 56-81-5 | | particulate | |
| | | TWA: 5 mg/m³ mist, respirable | |
| | | fraction | |
| | | (vacated) TWA: 10 mg/m ³ | |
| | | mist, total particulate | |
| | | (vacated) TWA: 5 mg/m ³ mist, | |
| | | respirable fraction | |
| Hydrogen peroxide | TWA: 1 ppm | TWA: 1 ppm | IDLH: 75 ppm |

| 7722-84-1 | | | (vacated) | .4 mg/m³ TWA: 1 ppm VA: 1.4 mg/m³ | | TWA: 1 ppm TWA: 1.4 mg/m ³ |
|--------------------------------|--|----------|---|---|---|---|
| Citral 5392-40-5 | TWA: 5 ppm inhalable and vapor S* | fraction | | - | | - |
| Chemical name | Alberta | Britis | h Columbia | Ontario | | Quebec |
| Isopropyl alcohol 67-63-0 | TWA: 200 ppm TWA: 492 mg/m³ STEL: 400 ppm STEL: 984 mg/m³ | | A: 200 ppm L: 400 ppm | TWA: 200 p STEL: 400 p | | TWA: 400 ppm TWA: 985 mg/m³ STEL: 500 ppm STEL: 1230 mg/m³ |
| Glycerin 56-81-5 | TWA: 10 mg/m ³ | | \: 10 mg/m ³ A: 3 mg/m ³ | - | | TWA: 10 mg/m ³ |
| Hydrogen peroxide 7722-84-1 | TWA: 1 ppm TWA: 1.4 mg/m ³ | TW | /A: 1 ppm | TWA: 1 pp | m | TWA: 1 ppm TWA: 1.4 mg/m ³ |
| Citral 5392-40-5 | | Derm | al Sensitizer | TWA: 5 pp Skin | m | |

| Chemical name | ACGIH |
|-------------------|--|
| Isopropyl alcohol | 40 mg/L (urine -end of shift at end of workweek Acetone) |

Appropriate engineering controls

Showers **Engineering controls**

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Do not eat, drink or smoke when using this product. Contaminated work clothing should not General hygiene considerations

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Translucent yellow liquid

Physical state Liquid Color Yellow Odor Citrus

Odor threshold No information available

Property Values Remarks • Method

None known No data available Melting point / freezing point None known

82.5 °C / 180.5 °F Boiling point / boiling range None known None known Flash point 18.3 °C / 64.9 °F **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available None known Vapor density No data available None known Relative density 0.83 None known Water solubility Soluble in water None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

Other information

No information available. **Explosive properties Oxidizing properties** No information available. No information available Softening point Molecular weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk density** No information available

10. Stability and reactivity

Reactivity None under normal use conditions.

Stable under normal conditions. Chemical stability

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Acids. Strong oxidizing agents. Isocyanates. Chlorine.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

Specific test data for the substance or mixture is not available. Ingestion may cause Ingestion

gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

Corcraft Hand Sanitizer Pre Mix

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Revision Date: 09-Mar-2020

Acute toxicity

Numerical measures of toxicity

No information available

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|---------------------|-------------------------|---------------------------------------|
| Isopropyl alcohol | = 1870 mg/kg (Rat) | = 4059 mg/kg (Rabbit) | = 72600 mg/m ³ (Rat) 4 h |
| Water | > 90 mL/kg(Rat) | - | - |
| Glycerin | = 12600 mg/kg (Rat) | > 10 g/kg (Rabbit) | > 570 mg/m³(Rat)1 h |
| Dipropylene glycol | = 14850 mg/kg(Rat) | > 20 mL/kg(Rabbit) | - |
| Hydrogen peroxide | = 1518 mg/kg (Rat) | = 9200 mg/kg (Rabbit) | = 2000 mg/m³ (Rat) 4 h |
| Citral | = 4960 mg/kg (Rat) | = 2250 mg/kg (Rabbit) | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Isopropyl alcohol 67-63-0 | - | Group 3 | - | Х |
| Hydrogen peroxide 7722-84-1 | A3 | Group 3 | - | - |

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--------------------------------|--|---|----------------------------|---|
| Isopropyl alcohol 67-63-0 | EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus) | LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus) | - | EC50: =13299mg/L (48h, Daphnia magna) |
| Glycerin 56-81-5 | - | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | - | - |
| Hydrogen peroxide 7722-84-1 | - | LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss) | - | EC50: 18 - 32mg/L (48h, Daphnia magna) |
| Citral 5392-40-5 | EC50: =19mg/L (96h, Desmodesmus subspicatus) EC50: =16mg/L (72h, Desmodesmus subspicatus) | - | - | EC50: =7mg/L (48h, Daphnia magna) |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| Component | Information |
|-----------|-------------|
| | |

| Chemical name | Partition coefficient |
|------------------------------|-----------------------|
| Isopropyl alcohol 67-63-0 | 0.05 |
| Glycerin 56-81-5 | -1.76 |
| Citral 5392-40-5 | 2.76 |

Mobility in soil No information available. Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name | California Hazardous Waste Status |
|-------------------|-----------------------------------|
| Isopropyl alcohol | Toxic |
| 67-63-0 | Ignitable |
| Hydrogen peroxide | Toxic |
| 7722-84-1 | Corrosive |
| | Ignitable |
| | Reactive |

14. Transport information

DOT

UN/ID no UN1993

Proper shipping name FLAMMABLE LIQUIDS, N.O.S.

Hazard class Packing group Ш

Special Provisions IB2, T7, TP1, TP8, TP28

Description UN1993, FLAMMABLE LIQUIDS, N.O.S. (Isopropyl alcohol), 3, II

Emergency Response Guide 128

Number

TDG

UN/ID no UN1993

Proper shipping name FLAMMABLE LIQUID, N.O.S.

Hazard class Packing group Ш **Special Provisions** 16, 150

UN1993, FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol), 3, II Description

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s.

Transport hazard class(es) Packing group Ш **ERG Code** 3H **Special Provisions A3**

Description UN1993, Flammable liquid, n.o.s. (Isopropyl alcohol), 3, II

IMDG Not regulated UN1993 **UN** number

UN proper shipping name FLAMMABLE LIQUID, N.O.S.

Transport hazard class(es) 3 Packing group Ш EmS-No F-E, S-E **Special Provisions** 274

UN1993, FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol), 3, II, (18.3°C C.C.) Description

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status. **TSCA**

| Chemical name | CAS No | US TSCA Inventory listing | US TSCA active/inactive |
|--------------------|------------|---------------------------|-------------------------|
| | | | designation |
| Isopropyl alcohol | 67-63-0 | Present | Active |
| Water | 7732-18-5 | Present | Active |
| Glycerin | 56-81-5 | Present | Active |
| Dipropylene glycol | 25265-71-8 | Present | Active |
| Hydrogen peroxide | 7722-84-1 | Present | Active |
| Citral | 5392-40-5 | Present | Active |

DSL/NDSL

Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|-----------------------------|-------------------------------|
| Isopropyl alcohol - 67-63-0 | 1.0 |

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ) |
|--------------------------------|--------------------------|---------------------------------------|--------------------------|
| Hydrogen peroxide 7722-84-1 | - | 1000 lb | - |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--------------------|------------|---------------|--------------|
| Isopropyl alcohol | X | X | X |
| 67-63-0 | | | |
| Glycerin | X | X | X |
| 56-81-5 | | | |
| Dipropylene glycol | - | - | X |

| 25265-71-8 | | | |
|-------------------|---|---|---|
| Hydrogen peroxide | X | X | X |
| 7722-84-1 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 2 Flammability 3 Instability 0 Physical and chemical

properties -

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

> Maximum limit value Skin designation

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Ceiling

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision Note Initial Release.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet