claire.

SAFETY DATA SHEET

1. Identification

Product number 1000003766

Product identifier DISINFECTANT SPRAY FOR HEALTH CARE USE

Company information Claire Manufacturing Co.

1005 S. Westgate Drive

Addison, IL 60101 United States

Company phone General Assistance 1-630-543-7600

Emergency telephone US 1-866-836-8855 Emergency telephone outside 1-952-852-4646

US

Version # 01

Recommended use CLEANER
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Environmental hazardsHazardous to the aquatic environment, acute hazardCategory 3

Hazardous to the aquatic environment, long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Causes serious eye irritation.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Category 4

Wash thoroughly after handling. Wear eye/face protection.

Response Wash hands after handling. 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.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethyl Alcohol		64-17-5	40 - 60
1,1-Difluoroethane		75-37-6	20 - 40

Chemical name	Common name and synonyms	CAS number	%
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportal		20 - 40	

^{#:} This substance has workplace exposure limit(s).

4. First-aid measures

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if Inhalation

victim inhaled the substance. Call a physician or Poison Control Center immediately. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Call a physician if symptoms develop or persist.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Call a physician or Poison

Control Center immediately. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO Eve contact

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or Poison

Control Center immediately.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth Ingestion

thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of

a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

Headache, Irritation of nose and throat. Severe eve irritation, Symptoms may include stinging. tearing, redness, swelling, and blurred vision. Coughing. Skin irritation.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim under observation.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

General fire hazards Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. This material and its container must be disposed of as hazardous waste.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get this material in contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Do not get this material on clothing. When using do not eat or drink. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Keep locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B)

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
,		1000 ppm	
US. ACGIH Threshold Limit Values	•		
Components	Type	Value	
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Type	Value	
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
US. Workplace Environmental Exp	osure Level (WEEL) Guides		
Components	Туре	Value	
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3	
,		1000 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Avoid exposure - obtain special instructions before use. Wear suitable protective clothing. It may Other

provide little or no thermal protection.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Avoid contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Clear. **Appearance** Physical state Gas. **Form** Aerosol. Color Light yellow.

Odor Aromatic. **Odor threshold** Not available.

Ha 9.5 - 10.5 estimated estimated

Melting point/freezing point Not available.

Initial boiling point and boiling

range

135.34 °F (57.41 °C) estimated

-58.0 °F (-50.0 °C) Propellant estimated Flash point

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

2.6 % estimated

(%)

Flammability limit - upper

12.8 % estimated

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

>= 75 psig @70F estimated Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature 856.4 °F (458 °C) estimated

Decomposition temperature Not available. Viscosity Not available.

Other information

0.86 - 0.88 estimated estimated Specific gravity

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Risk of ignition.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

Strong oxidizing agents. Incompatible materials

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision. Coughing. Skin irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
DISINFECTANT SPRAY FO	OR HEALTH CARE USE (CAS Mixture)	
Acute		
Inhalation		
LC50	Rat	228 mg/l/4h
Components	Species	Test Results
1,1-Difluoroethane (CAS 75	i-37-6)	
Acute		
Inhalation	5.4	44 407700 0/ 444
LC50	Rat	44 - 437500 %, 4 Hours
Ethyl Alcohol (CAS 64-17-5)	
Acute		
<i>Inhalation</i> LC50	Cat	85.41 mg/l, 4.5 Hours
2000	out	43.68 mg/l, 6 Hours
	Mayor	-
	Mouse	> 60000 ppm
		79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		51.3 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	10500 ml/kg
	Rat	1187 - 2769 mg/kg
		7800 ml/kg
Sodium Nitrite (CAS 7632-0	00-0)	
Acute		
Inhalation		
LC50	Rat	5.5 mg/kg, 4 hours supplier
Oral		
LD50	Rat	88 mg/kg supplier

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Product

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not available. **Aspiration hazard**

Chronic effects Hazardous by WHMIS criteria. Prolonged inhalation may be harmful.

Further information Danger of very serious irreversible effects.

12. Ecological information

Harmful to aquatic life. May cause long lasting harmful effects to aquatic life. **Ecotoxicity** Species

Troduct		Opecies	i est i tesuits
DISINFECTANT SPR	AY FOR HEALTH (CARE USE (CAS Mixture)	
Aquatic			
Algae	IC50	Algae	554 mg/L, 72 Hours
Crustacea	EC50	Daphnia	929 mg/L, 48 Hours
Fish	LC50	Fish	9956 mg/L, 96 Hours
Components		Species	Test Results
Ethyl Alcohol (CAS 64	l-17-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promela	s) > 100.1 mg/l, 96 hours
Sodium Nitrite (CAS 7	(632-00-0)		
Aquatic			
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

0.75 1,1-Difluoroethane Ethyl Alcohol -0.31

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

Test Results

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. Transport information

DOT

UN1950 **UN number UN** proper shipping name Aerosols

Transport hazard class(es)

Class 2.1 Subsidiary risk None Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

153. N82 Special provisions Packaging exceptions 306 None Packaging non bulk Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

This substance/mixture is not intended to be transported in bulk.

IATA

UN1950 **UN** number

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Environmental hazards Yes **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed. LTD QTY **Packaging Exceptions**

IMDG

UN number UN1950 **AEROSOLS UN** proper shipping name

Transport hazard class(es)

2 **Class** Subsidiary risk

Not applicable. Packing group

Environmental hazards

Marine pollutant No. F-D. S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

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IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Nitrite (CAS 7632-00-0)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

quantity planning quantity planning quantity, planning quantity, lower value upper value	Chemical name	CAS number	Reportable quantity	Threshold planning quantity		•
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Anhydrous Ammonia 7664-41-7 100 500 lbs

SARA 311/312 Hazardous No

chemical

Product name: DISINFECTANT SPRAY FOR HEALTH CARE USE

Chemical name CAS number % by wt. Sodium Nitrite 7632-00-0 0.1 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

1,1-Difluoroethane (CAS 75-37-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6) Ethyl Alcohol (CAS 64-17-5) Sodium Nitrite (CAS 7632-00-0)

US. New Jersey Worker and Community Right-to-Know Act

1,1-Difluoroethane (CAS 75-37-6) Ethyl Alcohol (CAS 64-17-5) Sodium Nitrite (CAS 7632-00-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethyl Alcohol (CAS 64-17-5) Sodium Nitrite (CAS 7632-00-0)

US. Rhode Island RTK

1,1-Difluoroethane (CAS 75-37-6) Sodium Nitrite (CAS 7632-00-0)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

05-23-2015 Issue date

Version # 01

United States & Puerto Rico

Product name: DISINFECTANT SPRAY FOR HEALTH CARE USE SDS US 9 / 10

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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.