Material Safety Data Sheet

Issuing Date 22-Jan-2012 **Revision Date** 12-Dec-2013 **Revision Number** 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Disinfectant Spray**

Recommended Use Disinfectant (Aerosol). Bathroom. Kitchen.

EPA Registration Number 11525-30

Supplier Address
KIK International
33 MacIntosh Blvd, Concord, Ontario,
L4K 4L5
CA
Phone:905-660-0444
Fax:905-660-7333
Contact:Scott Walker
Contact Phone:1-479-845-2750
Emergency Phone: 1-800-424-9300

Company Emergency Phone Number 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable Aerosol
Mist or aerosol may be irritating to eyes, nose, throat, and lungs
Irritating to eyes
May cause central nervous system depression

Appearance Clear **Physical State** Aerosol. **Odor** Alcohol

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects
Principle Routes of Exposure Eye contact. Skin contact.

Acute Toxicity
- **Eyes** Irritating to eyes.
- **Skin** Repeated exposure may cause skin dryness or cracking. May cause irritation.
- **Inhalation** Inhalation of aerosols: May cause irritation of respiratory tract.
- **Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Carcinogenic potential is unknown.

Aggravated Medical Conditions Central nervous system.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

.

Chemical Name	CAS-No	Weight %
Ethyl alcohol	64-17-5	40-70
Water, distilled, conductivity or of similar purity	7732-18-5	30-60
Isobutane	75-28-5	7-13
Propane	74-98-6	1 - 5
Sodium Benzoate	532-32-1	0.1 - 1
Sodium nitrite	7632-00-0	0.1 - 1
Soyaethyl morpholinium ethosulfate	61791-34-2	0.1 - 1
Alkyl chlorides, C12-14, reaction products with benzyl chloride and N,N-dimethylpropanediamine	92201-83-7	0.1 - 1

4. FIRST AID MEASURES

General Advice Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Wash off with warm water and soap.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Administer oxygen if breathing is difficult and you are trained.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Consult a physician.

Notes to Physician Treat symptomatically.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties Containers may explode when heated.

Flash Point -20C / -4F

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO_2).

Uniform Fire Code
- Irritant: Gas
- Aerosols: Level I

Hazardous Combustion Products Carbon oxides.

Explosion Data
Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Specific Hazards Arising from the Chemical Some may burn but none ignite readily. Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters
Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists

NFPA	Health Hazard 2	Flammability 4	Stability 0	Physical and Chemical Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Stop leak if you can do it without risk.

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

Methods for Cleaning Up Do not direct water at spill or source of leak.

Other Information Ventilate the area.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Avoid breathing vapors or mists. Keep away from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans.

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3 (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m^3	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m^3
Isobutane 75-28-5	STEL: 1000 ppm	N/A	N/A
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m^3	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Lightweight protective clothing.

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.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear.	**Odor**	Alcohol.
Odor Threshold	No information available	**Physical State**	Aerosol
pH	No information available		
Flash Point	-4F / -20C	**Autoignition Temperature**	No information available
Decomposition Temperature	No information available	**Boiling Point/Range**	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	**Explosion Limits**	No information available
Water Solubility	Soluble in water.	**Solubility**	No information available
Evaporation Rate	No information available	**Vapor Pressure**	No data available
Vapor Density	No data available	**Partition Coefficient: n-octanol/water**	

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products None known based on information supplied.

Conditions to Avoid Heat, flames and sparks.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Inhalation May cause drownsiness and dizziness based on components. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Eye Contact Irritating to eyes.

Skin Contact Repeated exposure may cause skin dryness or cracking. May cause irritation.

Ingestion May be harmful if swallowed..

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium nitrite	= 85 mg/kg (Rat)	-	= 5.5 mg/L (Rat) 4 h
Sodium Benzoate	= 2100 mg/kg (Rat)	-	-
Ethyl alcohol	-	-	= 124.7 mg/L (Rat) 4 h
Isobutane	-	-	= 658 mg/L (Rat) 4 h
Propane	-	-	= 658 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Carcinogenic potential is unknown.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	X
Sodium nitrite		Group 2A		X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Target Organ Effects Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethyl alcohol		LC50: 12.0 - 16.0 mL/L (96 h static) Oncorhynchus mykiss LC50: 13400 - 15100 mg/L (96 h flow-through) Pimephales promelas LC50: > 100 mg/L (96 h static) Pimephales promelas	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L (48 h) Daphnia magna EC50: 10800 mg/L (24 h) Daphnia magna EC50: 2 mg/L (48 h Static) Daphnia magna
Sodium Benzoate		LC50: 420-558 mg/L (96 h flow-through) Pimephales promelas LC50: > 100 mg/L (96 h static) Pimephales promelas	EC50 = 500 mg/L 24 h	EC50: < 650 mg/L (48 h) Daphnia magna
Sodium nitrite		LC50: 0.65-1 mg/L (96 h static) Oncorhynchus mykiss LC50: 0.19 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 0.092-0.13 mg/L (96 h flow-through) Oncorhynchus mykiss LC50: 2.3 mg/L (96 h flow-through) Pimephales promelas LC50: 0.4-0.6 mg/L (96 h semi-static) Oncorhynchus mykiss LC50: 20 mg/L (96 h static) Pimephales promelas		

Chemical Name	Log Pow
Ethyl alcohol	-0.32
Isobutane	2.88
Propane	2.3
Sodium Benzoate	-2.13
Sodium nitrite	-3.7

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 232

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Ethyl alcohol			Toxic Ignitable	Recyclable Hazardous Wastes
Sodium nitrite			Toxic Ignitable Reactive	

14. TRANSPORT INFORMATION

Emergency Response Guide Number 126

DOT

Description CONSUMER COMMODITY, ORM-D

TDG

Description UN1950, AEROSOLS, 2.1

MEX

Description UN1950 AEROSOLS, 2.1

ICAO

Description UN1950, AEROSOLS, 2.1

IATA

Description UN1950, AEROSOLS, FLAMMABLE, 2.1

IMDG/IMO

Description UN1950, AEROSOLS, 2.1, FP -20C

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Not determined

U.S. 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	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium nitrite	7632-00-0	0.1 - 1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite	100 lb			X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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
Sodium nitrite	100 lb	

U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Ethyl alcohol	64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrite	X	X	X		X
Isobutane	X	X	X		
Propane	X	X	X		

International Regulations

Mexico - Grade No information available.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
A Compressed gases
B5 Flammable aerosol
D2B Toxic materials

Chemical Name	NPRI
Sodium nitrite	X

16. OTHER INFORMATION

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Revision Note No information available

General 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