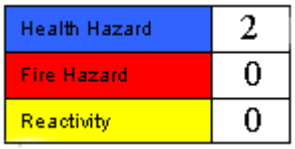
Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol
			

Issuing Date 12-May-2009 **Revision Date** 12-May-2009 **Revision Number** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **Disinfectant Spray**

Recommended Use Cleaning agent. 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
May cause eye irritation
Irritating to eyes
May cause central nervous system depression

Appearance Clear **Physical State** Gas. **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 Moderately irritating to the eyes.
Skin Repeated exposure may cause skin dryness or cracking. May cause irritation.
Inhalation Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. 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.

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	30 - 60
Isobutane	75-28-5	5 - 10
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
Non-Hazardous Fragrance	Fragrance	0.1 - 1

4. FIRST AID MEASURES

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 Wash skin with soap and water.

Inhalation Move victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, contact emergency medical services immediately.

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

Notes to Physician Keep victim warm and quiet.

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 -20°C (Isobutane) / -4°F

Suitable Extinguishing Media Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO_2. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

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
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Environmental Precautions Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. 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 Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with eyes. Do not puncture or incinerate cans. Take precautionary measures against static discharges.

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	TWA: 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

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

NIOSH IDLH: Immediately Dangerous to Life or Health

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**	Gas
pH	No information available		
Flash Point	-4°F / -20°C (Isobutane)	**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	**VOC Content**	Not applicable
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products None known.

Conditions to Avoid None known.

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 No acute toxicity information is available for this product.

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	88 mg/kg (Rat)	-	5500 µg/m^3 (Rat) 4 h
Sodium Benzoate	2100 mg/kg (Rat)	-	-
Alkyl chlorides, C12-14, reaction products with benzyl chloride and N,N-dimethylpropanediamine	-	-	-
Ethyl alcohol	7060 mg/kg (Rat)	-	-
Soyaethyl morpholinium ethosulfate	-	-	-
Isobutane	-	-	658 mg/L (Rat) 4 h
Non-Hazardous Fragrance	-	-	-
Propane	-	-	658 mg/L (Rat) 4 h

Chronic Toxicity

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

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

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)
Sodium nitrite		LC50= 0.19 mg/L Oncorhynchus mykiss 96 h		
Sodium Benzoate		LC50= 484 mg/L Pimephales promelas 96 h LC50> 100 mg/L Pimephales promelas 96 h	EC50 = 500 mg/L 24 h	EC50 > 100 mg/L 96 h
Ethyl alcohol		LC50= 12900 mg/L Oncorhynchus mykiss 96 h LC50= 14.2 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h

Chemical Name	Log Pow
Sodium nitrite	25
Sodium Benzoate	2.13
Ethyl alcohol	0.32
Isobutane	20
Propane	2.3

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 561

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic; Ignitable
Sodium nitrite	Toxic Ignitable Reactive

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Consumer commodity
Hazard Class	ORM-D
Reportable Quantity (RQ)	Sodium nitrite, RQ kg = 15133.33
Description	Consumer commodity,ORM-D,RQ
Emergency Response Guide Number	126

TDG

Proper Shipping Name	Aerosols
Hazard Class	2.1
UN-No	UN1950
Description	AEROSOLS,2.1,UN1950

MEX

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Description	UN1950 Aerosols,2,

ICAO

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Description	Aerosols,UN1950

IATA

UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
ERG Code	10L
Description	UN1950,Aerosols, flammable,2.1

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2
Subsidiary Class	+

14. TRANSPORT INFORMATION

UN-No	UN1950
EmS No.	F-D, S-U
Description	UN1950, Aerosols,2(+)

RID

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,RID
ADR/RID-Labels	2

ADR

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,

ADN

Proper Shipping Name	Aerosols
Hazard Class	2
Classification Code	5F
Special Provisions	190, 327, 625
Description	UN1950 Aerosols,2,
Hazard Labels	2.1
Limited Quantity	LQ2
Ventilation	VE01, VE04

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

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	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
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
Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

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

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium nitrite	X	X	X		
Isobutane	X	X	X		
Propane	X	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
D2B Toxic materials

Chemical Name	NPRI
Sodium nitrite	X

16. OTHER INFORMATION

Issuing Date 12-May-2009

Revision Date 12-May-2009

Revision Note No information available

Disclaimer
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet