

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 031-004
Product name Crazy Clean
Effective date 03-Jan-2012
Company information Sprayway, Inc.

1005 Westgate Addison, IL 60101 United States

Company phone General Assistance 630-543-7600

Emergency telephone US 800-424-9300

Version # 17

Supersedes date 16-Dec-2010

2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE.

Potential health effects

Routes of exposure Ingestion.

Eyes Health injuries are not known or expected under normal use.

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

dermatitis.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be

absorbed into the body by ingestion.

Target organs 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is

repeated and prolonged and may cause blood damage. These effects have not been

observed in humans.

Central nervous system. Lungs.

Chronic effects Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be

harmful if absorbed through skin. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and

blurred vision) and/or damage. May cause delayed lung injury.

Signs and symptoms Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or

skin). Coughing. Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
2-Butoxyethanol	111-76-2	3 - 5
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels	> 90	

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get

medical attention if irritation develops and persists.

Inhalation If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration

is greater than the TLV or health effects are noticed), immediately remove the affected

person(s) to fresh air. Call a physician if symptoms develop or persist.

Ingestion If ingestion of a large amount does occur, call a poison control center immediately.

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5. Fire Fighting Measures

Flammable properties

Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Protective equipment and precautions for firefighters Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental Release Measures

Methods for containment

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Storage

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Store in a well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS#	IWA	SIEL	Ceiling	
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established	
n-Butane	106-97-8	1000 ppm	Not established	Not established	
OSHA					

Components	CAS#	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established

Personal protective equipment

Skin protection

Wear appropriate chemical resistant clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Compressed liquefied gas. **Appearance Boiling point** 212 °F (100 °C) estimated

Color Pale yellow

0.9782 g/cm3 estimated **Density** Flammability (HOC) 3.4413 kJ/g estimated

No Flash back

Product name: Ôlæ Clean MSDS US Flash point -156 °F (-104.4 °C) Propellant

Form Aerosol. Not available Freezing point Odor Pleasant. 11.8 - 12.8 pН Physical state Liquid.

Pressure 40 - 75 psig @70F

Solubility Partially

0.9783 estimated Specific gravity

10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. Risk of ignition. **Chemical stability**

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute LD50: 4536 mg/kg estimated, Rat, Dermal **Acute effects**

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 2-Butoxyethanol 111-76-2

470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h Not expected to be hazardous by OSHA criteria. Sensitization **Teratogenicity** Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity**

concerns.

LC50 1172 mg/L, Fish, 96.00 Hours, EC50 17672 mg/L, Daphnia, 48.00 Hours, IC50 88.34 mg/L, Algae, 72.00 Hours,

13. Disposal Considerations

D001: Waste Flammable material with a flash point <140 F Waste codes

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material **Disposal instructions**

and its container to hazardous or special waste collection point. If discarded, this product

is considered a RCRA ignitable waste, D001.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Aerosols Proper shipping name Hazard class 2.1 **UN** number UN1950

Additional information:

Special provisions 153, N82 LTD QTY Packaging exceptions Packaging non bulk None Packaging bulk None



Product name: Ô¦æ^ÁÔ|^æ

IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY

Item5FLabels requiredNoneTransport Category2



Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class2.1UN number1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1





15. Regulatory Information

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

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

2-Butoxyethanol 111-76-2 1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3,

R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

sulfonate, Chemical Category N230)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous Yes

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes

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

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of New and Existing Chemicals (EINECS) Yes Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Korea Existing Chemicals List (ECL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

State regulations

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

2-Butoxyethanol 111-76-2 Present n-Butane 106-97-8 Present

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16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0 Personal protection:

The information provided in this Safety Data Sheet is correct to the best of our **Disclaimer**

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. The information in the sheet was written based on the best knowledge and

experience currently available.

Product and Company Identification: Product Review MSDS sections updated

Hazards Identification: Main symptoms

Transport Information: Product Shipping Name/Packing Group

Prepared by Regulatory Compliance

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