



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 208  
**Product name** **Toner Aide**  
**Effective date** 28-Dec-2007  
**Company information** Sprayway, Inc.  
484 Vista Ave.  
Addison, IL 60101 United States  
**Company phone** General Assistance 630-543-7600  
**Emergency telephone US** 800-424-9300  
**Emergency telephone outside US** 703-527-3887  
**Supersedes date** 13-Nov-2007

## 2. Hazards Identification

**Emergency overview** EXTREMELY FLAMMABLE  
CONTENTS UNDER PRESSURE.  
Aerosol. Pressurized container may explode when exposed to heat or flame.

**OSHA regulatory status** Cancer hazard. Irritating to skin. Irritating to eyes. Irritating to respiratory system.  
Prolonged exposure may cause chronic effects.  
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Routes of exposure** Inhalation. Skin contact.

**Eyes** Causes eye irritation.

**Skin** This product may be harmful if it is absorbed through the skin. Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation** Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

**Target organs** Kidney.  
  
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.

**Chronic effects** Blood. Central nervous system. Heart. Liver. Respiratory system.  
Unconsciousness. Liver injury may occur. Kidney injury may occur. 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 damage.

**Signs and symptoms** Discomfort in the chest. Narcosis. Cyanosis. Liver enlargement. Jaundice. Defatting of the skin. Irritation.

**Potential environmental effects** Components of this product are hazardous to aquatic life.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
n-Butane	106-97-8	20 - 30
n-Butyl Acetate	123-86-4	20 - 30
Trichloroethylene	79-01-6	15 - 20
Propane	74-98-6	10 - 15
Acetone	67-64-1	10 - 15
Mineral Spirits	8052-41-3	3 - 5
2-Butoxyethanol	111-76-2	3 - 5
Non-hazardous and other components below reportable levels		1 - 2.5

### 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. Get medical attention if irritation develops or persists.

##### Skin contact

Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.

##### Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. 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.

##### Ingestion

Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. 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.

#### Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

#### General advice

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Call a physician if symptoms develop or persist.

### 5. Fire Fighting Measures

#### Flammable properties

Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

#### Extinguishing media

##### Suitable extinguishing media

Water fog. Foam. Alcohol foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Do not use water.

##### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective.

#### Protection of firefighters

##### Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

##### Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

#### Specific hazards

Fire may produce irritating, corrosive and/or toxic gases.

### 6. Accidental Release Measures

#### Personal precautions

Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.

#### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

**Methods for cleaning up**

Should not be released into the environment.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

**7. Handling and Storage****Handling**

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not breathe gas/fumes/vapor/spray. Wear personal protective equipment. Avoid prolonged exposure.

**Storage**

Level 2 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

**8. Exposure Controls / Personal Protection****Exposure limits****ACGIH**

Components	CAS #	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	Not established
n-Butyl Acetate	123-86-4	150 ppm	200 ppm	Not established
Trichloroethylene	79-01-6	50 ppm	100 ppm	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
Mineral Spirits	8052-41-3	100 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established

**OSHA**

Components	CAS #	TWA	STEL	Ceiling
n-Butyl Acetate	123-86-4	150 ppm	Not established	Not established
Trichloroethylene	79-01-6	100 ppm	Not established	200 ppm
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	1000 ppm	Not established	Not established
Mineral Spirits	8052-41-3	500 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye / face protection**

Wear chemical goggles.

**Skin protection**

Wear appropriate chemical resistant clothing. Protective gloves.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations**

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties****Appearance**

Compressed liquefied gas.

**Color**

clear colorless

**Odor**

fruity

**Physical state**

Liquid.

**Form**

Aerosol.

**Flammability (HOC)**

29.46 kJ/g estimated

**Flash back**

Yes

**Pressure**

43 - 53 psig @ 70F

**Solubility**

Negligible

Flash point	-156 °F (-104.4 °C) estimated
Boiling point	114.8 °F (46.1 °C) estimated
Specific gravity	0.7485 estimated
pH	Not applicable

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of ignition. Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	This product is incompatible with nitrates.
<b>Hazardous decomposition products</b>	Irritants. Toxic gas. May include oxides of nitrogen.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 5643 mg/kg estimated, Rat, Oral Acute LD50: 7786 mg/kg estimated, Rat, Dermal Acute LC50: 71 mg/l/4h estimated, Rat, Inhalation
<b>Sensitization</b>	Not expected to be hazardous by OSHA criteria.
<b>Local effects</b>	Liver toxicity. Blood disorder may occur after ingestion. Irritating to eyes. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.
<b>Chronic effects</b>	Hazardous by OSHA criteria. This product may be harmful if it is absorbed through the skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.  2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
<b>Subchronic effects</b>	Kidney injury may occur. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.
<b>Carcinogenicity</b>	Hazardous by OSHA criteria.
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Mutagenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Reproductive effects</b>	Not expected to be hazardous by OSHA criteria.
<b>Teratogenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Epidemiology</b>	Hazardous by OSHA criteria.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

<b>Ecotoxicity</b>	LC50 56.39 mg/L estimated, Fish, 96.00 Hours, EC50 11.15 mg/L estimated, Daphnia, 48.00 Hours, IC50 613 mg/L estimated, Algae, 72.00 Hours,
<b>Environmental effects</b>	Harmful to aquatic life.

## 13. Disposal Considerations

<b>Waste codes</b>	D001: Waste Flammable material with a flash point <140 F D040: Waste Trichloroethylene
<b>Disposal instructions</b>	Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Additional information:	
Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

### IMDG

#### Basic shipping requirements:

Proper shipping name	AEROSOLS, toxic, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	NOT a LTD QTY
Item	5TF
Labels required	2.1 +6.1
Transport Category	1



### IATA

#### Basic shipping requirements:

Proper shipping name	Aerosols, flammable, containing substances in Division 6.1, Packing Group III
Hazard class	2.1
Subsidiary hazard class	6.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY



## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### CERCLA (Superfund) reportable quantity

n-Butyl Acetate: 5000.0000  
Trichloroethylene: 100.0000  
Acetone: 5000.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - Yes  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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**

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

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

2-Butoxyethanol	111-76-2	Present
Acetone	67-64-1	Environmental hazard
Mineral Spirits	8052-41-3	Present
n-Butane	106-97-8	Present
n-Butyl Acetate	123-86-4	Environmental hazard
Propane	74-98-6	Present
Trichloroethylene	79-01-6	Environmental hazard

**16. Other Information****HMIS® ratings**

Health: 2\*  
 Flammability: 3  
 Physical hazard: 0

**Prepared by**

Regulatory Compliance

**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.

**Issue date**

28-Dec-2007