

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 844-005

Product name Water Base Stainless Steel Maintainer

Effective date 24-Jan-2011
Company information Claire Mfg.
1005 Westgate

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

Version # 13

Supersedes date 10-Aug-2010

2. Hazards Identification

Emergency overview FLAMMABLE

Aerosol. CONTENTS UNDER PRESSURE.

Irritating to eyes. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Skin contact. Ingestion.

Eyes Causes eye irritation.

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.

Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Lungs.

Chronic effects 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. Coughing. Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	15 - 20
n-Butane	106-97-8	10 - 15
Odorless Mineral Spirits	64742-48-9	8 - 10
Propane	74-98-6	5 - 8
Non-hazardous and other components below reportable levels		40 - 60

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 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. Get medical attention if symptoms persist.

Product name: Water Base Stainless Steel Maintainer Product #: 844-Water Base Stainless Steel Maintainer Ingestion

If material is ingested, immediately contact a poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

5. Fire Fighting Measures

Flammable properties

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

Foam. Dry chemical. Carbon dioxide (CO2). Do not use water jet.

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 case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

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. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Wear personal protective equipment. Avoid prolonged exposure.

Storage

Contents under pressure. Do not puncture, incinerate or crush. 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. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 2 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Propane

CAS#	TWA	STEL	Ceiling
106-97-8	1000 ppm	Not established	Not established
74-98-6	1000 ppm	Not established	Not established
CAS#	TWA	STEL	Ceiling
	106-97-8 74-98-6	106-97-8 1000 ppm 74-98-6 1000 ppm	106-97-8 1000 ppm Not established 74-98-6 1000 ppm Not established

Personal protective equipment

Eye / face protection

Chemical goggles are recommended.

1000 ppm

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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.

Not established

Not established

9. Physical & Chemical Properties

Appearance Boiling point

Color

Compressed liquefied gas. 226.4 °F (107.8 °C) estimated

White.

74-98-6

0.8138 g/cm3 estimated Density

Flammability (HOC) 20.1252 kJ/g estimated

Flash back

-156 °F (-104.4 °C) Propellant Flash point

Form Aerosol. Freezing point Not available Characteristic. Odor Not Applicable pН

Physical state Liquid.

50 - 70 psig @ 70F **Pressure**

Negligible Solubility 0.8139 Specific gravity

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions. Conditions to avoid Heat, flames and sparks.

No hazardous decomposition products are known. **Hazardous decomposition products**

11. Toxicological Information

Acute effects Acute LD50: 8459 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h

Odorless Mineral Spirits 64742-48-9 Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >3160 mg/kg

Propane 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h

64742-47-8 Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Synthetic Isoparaffinic Hydrocarbon

Rabbit >2000 mg/kg

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 267 mg/L, Fish, 96.00 Hours,

13. Disposal Considerations

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

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:

Proper shipping name Consumer commodity

Hazard class ORM-D Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306 156, 306 Packaging non bulk Packaging bulk None

IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels requiredNoneTransport Category2



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulations OSHA Process Safety Standard: This material is not known to be hazardous by the

OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

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

Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

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 - Yes 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) Yes European Inventory of New and Existing Chemicals (EINECS) Europe No European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes 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

 n-Butane
 106-97-8
 Present

 Odorless Mineral Spirits
 64742-48-9
 Present

 Propane
 74-98-6
 Present

 Synthetic Isoparaffinic
 64742-47-8
 Present

Hydrocarbon

16. Other Information

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

HMIS® ratings Health: 1* Flammability: 3

Physical hazard: 0

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

experience currently available.

MSDS sections updated Product and Company Identification: Product Review

Composition / Information on Ingredients: Ingredients Accidental Release Measures: Containment procedures

Handling and Storage: Storage

Transport Information: Agency Name and Packaging Type/Transport Mode Selection

Prepared by Regulatory Compliance