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 Manufacturing Co. 1005 S. Westgate Drive 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.

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.

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

	naturally	, have victim lean forwar		
		5. Fire Fighting Me	asures	
Flammable properties		gas may spread to dista e or explosion hazard.	ant ignition sources and flas	h back. Runoff to sewer may
Extinguishing media				
Suitable extinguishing m	nedia Foam. D	ry chemical. Carbon dio	kide (CO2). Do not use wat	er jet.
Protection of firefighters	Fire weat	and the statistic states and the		
Specific hazards arising the chemical		produce irritating, corro	-	
Protective equipment an precautions for firefighte		of fire and/or explosion d prevent vapor pressure		iners should be cooled with
	6. A	ccidental Release	Measures	
Methods for containment	leak is in	reparable. Stop the flow	of material, if this is without	
Methods for cleaning up	nods for cleaning up Should not be released into the environment. Use a non-combustible material lik vermiculite, sand or earth to soak up the product and place into a container for la disposal.			
		ills: Wipe up with absort ly to remove residual co	pent material (e.g. cloth, fleen ntamination.	ece). Clean surface
		7. Handling and St	orage	
Handling Storage	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. 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. Exposi	ure Controls / Pers	onal Protection	
Exposure limits ACGIH				
Components	CAS #	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
OSHA				
Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
Personal protective equipme	ent			
Eye / face protection	Chemica	I goggles are recommer	dod	
			lueu.	
Skin protection			ant clothing. Chemical resi	stant gloves.
	Wear ap When wo appropria	propriate chemical resist orkers are facing concen ate certified respirators.		e limit they must use ceeded use NIOSH
Skin protection	Wear ap When wo appropria mechani	propriate chemical resist orkers are facing concen ate certified respirators.	ant clothing. Chemical resi trations above the exposur If permissible levels are exo cartridge or an air-supplied	e limit they must use ceeded use NIOSH
Skin protection Respiratory protection	Wear ap When wo appropria mechani 9. Ph	propriate chemical resist orkers are facing concen ate certified respirators. cal filter / organic vapor	ant clothing. Chemical resi trations above the exposur If permissible levels are exo cartridge or an air-supplied	e limit they must use ceeded use NIOSH
Skin protection Respiratory protection	Wear ap When we appropria mechani 9. Ph Compres	propriate chemical resist orkers are facing concen ate certified respirators. cal filter / organic vapor oysical & Chemical	ant clothing. Chemical resi trations above the exposur If permissible levels are exo cartridge or an air-supplied	e limit they must use ceeded use NIOSH
Skin protection	Wear ap When we appropria mechani 9. Ph Compres	propriate chemical resist orkers are facing concen ate certified respirators. cal filter / organic vapor oysical & Chemical ased liquefied gas.	ant clothing. Chemical resi trations above the exposur If permissible levels are exo cartridge or an air-supplied	e limit they must use ceeded use NIOSH

Flammability (HOC)	20.1252 kJ/g estimated		
Flash back	No		
Flash point	-156 °F (-104.4 °C) Propellant		
Form	•		
Freezing point	Not available		
Odor	Characteristic.		
pН	Not Applicable		
Physical state	Liquid.		
Pressure	50 - 70 psig @ 70F		
Solubility	Negligible		
Specific gravity	0.8139		
	10. Chemical Stability & Reactivity Information		
Chemical stability	Stable at normal conditions.		
Conditions to avoid	Heat, flames and sparks.		
Hazardous decomposition pro	oducts No hazardous decomposition products are known.		
	11. Toxicological Information		
Acute effects	Acute LD50: 8459 mg/kg estimated, Rat, Dermal		
Component analysis - LD50			
Toxicology Data - Selected L	D50s and LC50s		
n-Butane Odorless Mineral Spirits	106-97-8 Inhalation LC50 Rat 658 mg/L 4 h 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		
Synthetic Isoparaffinic Hydrocarbon	64742-47-8 Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg		
Sensitization	Not expected to be hazardous by OSHA criteria.		
Teratogenicity	Not expected to be hazardous by OSHA criteria.		
	12. Ecological Information		
Ecotoxicity	Components of this product have been identified as having potential environmental concerns.		
	LC50 267 mg/L, Fish, 96.00 Hours,		
	13. Disposal Considerations		
Waste codes	D001: Waste Flammable material with a flash point <140 F		
Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container to hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001.		
	14. Transport Information		

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	
Hazard class	2.1	
UN number	1950	~ ~
Additional information:		
Packaging exceptions	LTD QTY	
Item	5F	2
Labels required	None	
Transport Category	2	•
ΙΑΤΑ		
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	2

	15. Regulatory Information	
US federal regulations	OSHA Process Safety Standard: This material is not known OSHA Highly Hazardous Process Safety Standard, 29 CFR This product is a "Hazardous Chemical" as defined by the O Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.	1910.119.
Occupational Safety and Health	Administration (OSHA)	
29 CFR 1910.1200 hazardou chemical	s Yes	
CERCLA (Superfund) reportable	quantity	
None		
Superfund Amendments and Re	authorization Act of 1986 (SARA)	
Section 302 extremely hazardous substance	No	
Section 311 hazardous cher	nical 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)	
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	
Japan	Inventory of Existing and New Chemical Substances (ENCS) Y	
Korea	Existing Chemicals List (ECL) Ye	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Ye
A "Yes" indicates that all compon	ents of this product comply with the inventory requirements administered by	<pre>/ the governing country(s)</pre>
State regulations		
U.S Pennsylvania - RTK (Rigł	nt to Know) List	
n-Butane	106-97-8 Present	

n-Butane106-97-8PresentOdorless Mineral Spirits64742-48-9PresentPropane74-98-6PresentSynthetic Isoparaffinic64742-47-8PresentHydrocarbonPresentPresent

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	