

Material Safety Data Sheet

Issuing Date 18-May-2012 Revision Date Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Flush Solution for Waterborne Paint

Product Code(s) 980100

UN-Number UN1230

Product Technology S/B

Manufacturer Address

Ennis-Flint

5910 North Central Expressway

Suite 1050 Dallas TX 75206 T: 800.331.8118

800.331.8118 (For Technical Inquiries)

Chemical Emergency Phone Number Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable liquid and vapor
Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes, respiratory system and skin
May cause central nervous system depression
May adversely affect liver and kidney.

Appearance ClearPhysical State Liquid.Odor Alcohol

Potential Health Effects

Principle Routes of Exposure Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes Irritating to eyes.

Skin Harmful in contact with skin. Irritating to skin.

Inhalation Harmful by inhalation. Irritating to respiratory system. May cause central nervous system

depression with nausea, headache, dizziness, vomiting, and incoordination.

Ingestion Harmful if swallowed. May cause blindness if swallowed. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea. May cause additional affects as listed under

"Inhalation".

Chronic Effects Inhalation, ingestion, or skin absorption of methanol can cause blindness. Long-term exposure

to lower levels of methanol has been shown to cause a broad range of ocular effects, including blurring, constriction of the visible field, changes in color perception, and temporary or permanent blindness. Overexposure to methanol may result in visual disturbances, nausea, abdominal and muscle pain, dizziness, weakness and disturbances of consciousness ranging

from coma to clonic seizures. May cause adverse liver and kidney effects.

Aggravated Medical Conditions Central nervous system. Pre-existing eye disorders. Skin disorders. Respiratory disorders.

Liver disorders. Kidney disorders.

Interactions with Other Chemicals Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Methyl alcohol	67-56-1	30-60

4. FIRST AID MEASURES

General Advice Show this safety data sheet to the doctor in attendance. For further assistance, contact your

local Poison Control Center

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and **Eye Contact**

continue flushing for at least 15 minutes. Call a physician immediately.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing all

contaminated clothing and shoes. Seek immediate medical attention/advice.

Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen

if breathing is difficult. Consult a physician.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink Ingestion

plenty of water. Call a physician or Poison Control Center immediately.

Ethanol may inhibit methanol metabolism. Effects of exposure (inhalation, ingestion or skin **Notes to Physician**

contact) to substance may be delayed.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Do not use mouth-to-mouth method if victim ingested or 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.

5. FIRE-FIGHTING MEASURES

Flammable Properties Highly flammable.

84°F / 29°C **Flash Point Flashpoint Method** Closed cup

Suitable Extinguishing Media Dry chemical, CO₂, water spray or alcohol-resistant foam. Use water spray or fog; do not use

straight streams.

Unsuitable Extinguishing Media CAUTION: All these products have a very low flash point. Use of water spray when fighting

fire may be inefficient.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Yes.

None

Specific Hazards Arising from the

Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in

sewers. Runoff to sewer may create fire or explosion hazard.

Protective Equipment and

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

Precautions for Firefighters (approved or equivalent) and full protective gear.

NFPA Health Hazard 1 Flammability 3 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 2* Flammability 3 Physical Hazard 0 Personal Protection X

*Indicates a chronic health hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use personal protective equipment. Avoid contact with skin, eyes

and clothing.

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment A vapor suppressing foam may be used to reduce vapors. Dike far ahead of liquid spill for later

disposal.

Methods for Cleaning Up Dam up. Use personal protective equipment. Soak up with inert absorbent material (e.g. sand,

silica gel, acid binder, universal binder, sawdust). Take precautionary measures against static discharges. Use clean non-sparking tools to collect material and place it into loosely covered

plastic containers for later disposal

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Take precautionary

measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in an area containing flame proof equipment. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes and

clothing.

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly

closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	STEL = 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m ³
		(vacated) TWA: 260 mg/m ³	STEL: 325 mg/m ³
		(vacated) STEL: 250 ppm	STEL: 250 ppm
		(vacated) STEL: 325 mg/m ³	
		(vacated) S*	

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Engineering Measures Showers. Eyewash stations. Explosion proof ventilation systems.

Personal Protective Equipment

Eye/Face Protection Skin and Body Protection Respiratory Protection Tightly fitting safety goggles.

Impervious clothing. Chemical resistant apron. Boots. Nitrile rubber.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance

with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and

clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceClear.OdorAlcohol.Odor ThresholdNot applicablePhysical StateLiquid

pH 8

Flash Point 84°F / 29°C Flashpoint Method Closed cup
Autoignition Temperature Not applicable
Boiling Point/Boiling Range Not applicable
Not applicable
Melting Point/Range Not applicable

Flammability Limits in Air (For Methanol)
Upper 36%
Lower 6%

Specific Gravity0.90644SolubilitySolubleEvaporation RateNot applicableVapor PressureNot applicable

Vapor Density Not applicable VOC (g/I) 800

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents. Aluminum.

Conditions to Avoid Heat, flames and sparks.

Hazardous Decomposition Products Carbon oxides. Formaldehyde.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat)4 h
			64000 ppm (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Inhalation, ingestion, or skin absorption of methanol can cause blindness. Long-term exposure

to lower levels of methanol has been shown to cause a broad range of ocular effects, including blurring, constriction of the visible field, changes in color perception, and temporary or permanent blindness. Overexposure to methanol may result in visual disturbances, nausea, abdominal and muscle pain, dizziness, weakness and disturbances of consciousness ranging

from coma to clonic seizures. May cause adverse liver and kidney effects.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Target Organ Effects Central nervous system (CNS). Respiratory system. Liver. Kidney.

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)
Methyl alcohol	-	LC50 96 h: 13500 - 17600	EC50 = 39000 mg/L 25 min	-
•		mg/L flow-through (Lepomis	EC50 = 40000 mg/L 15 min	
		macrochirus)	EC50 = 43000 mg/L 5 min	
		LC50 96 h: 18 - 20 mL/L		
		static (Oncorhynchus mykiss)		
		LC50 96 h: 19500 - 20700		
		mg/L flow-through		
		(Oncorhynchus mykiss)		
		LC50 96 h: = 28200 mg/L		
		flow-through (Pimephales		
		promelas)		
		LC50 96 h: > 100 mg/L static		
		(Pimephales promelas)		

Chemical Name	Log Pow
Methyl alcohol	-0.77

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D001 U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream:		U154
		F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic
	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-Number UN1230
Proper shipping name Methanol
Hazard Class 3

Hazard Class Subsidiary Class

Packing Group

Special Provisions This shipment under Class 3 only is only allowed for domestic shipments.

Description UN1230, Methanol, 3, , II

Emergency Response Guide 131

Number

TDG

UN-Number UN1230
Proper Shipping Name Methanol
Hazard Class 3
Subsidiary Class (6.1)
Packing Group II

Description UN1230, METHANOL, 3(6.1), II

MEX

UN-Number UN1230
Proper Shipping Name Methanol
Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Description UN1230 Methanol, 3(6.1), II

ICAO

UN-Number UN1230
Proper shipping name Methanol
Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Description UN1230, Methanol, 3(6.1), II

IATA

UN-Number UN1230
Proper Shipping Name Methanol
Hazard Class 3
Subsidiary Class 6.1
Packing Group II

Packing Group II 3L

Description UN1230, Methanol, 3(6.1), II

IMDG/IMO

UN-Number UN1230
Proper Shipping Name Methanol
Hazard Class 3
Subsidiary Class 6.1
Packing Group II
EmS No. F-E, S-D

Description UN1230, Methanol, 3(6.1), II, FP 29C

RID

UN-Number UN1230

Proper Shipping Name Methanol Hazard Class 3
Packing Group II

Classification Code FT1

Description UN1230 Methanol, 3(6.1), II

ADR/RID-Labels 6.1

ADR

UN-Number UN1230 Proper Shipping Name Methanol

Hazard Class 3
Packing Group || Classification Code FT1

Description UN1230 Methanol, 3(6.1), II

ADR/RID-Labels 6.1

ADN

UN-No UN1230 Proper Shipping Name Methanol

Hazard Class 3
Packing Group II
Classification Code FT1
Special Provisions 279, 802

Description UN1230 Methanol, 3(6.1), II

 Hazard Labels
 3 + 6.1

 Limited Quantity
 LQ0

 Ventilation
 VE01, VE02

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

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 %
Methyl alcohol	67-56-1	38	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
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
Ammonium hydroxide	1000 lb			X

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	RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ
Ammonium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	Х	Х	Х	Х	Х

International Regulations

Mexico - Grade

Serious risk, Grade 3

Chemical Name	Carcinogen Status	Exposure Limits
Methyl alcohol		Mexico: TWA= 200 ppm
·		Mexico: TWA= 260 mg/m ³
		Mexico: STEL= 250 ppm
		Mexico: STEL= 310 mg/m ³

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

B2 Flammable liquid D1B Toxic materials D2A Very toxic materials D2B Toxic materials



Canadian National Pollutant Release Inventory (NPRI)

Chemical Name	NPRI
Methyl alcohol	X

Legend

X - Listed

16. OTHER INFORMATION

Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date 18-May-2012

Revision Date

Revision Note Initial Release.

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. 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 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. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

End of Safety Data Sheet