Issue Date: 05-Jul-2018 SAFFTY DATA SHFFT Version 3

1. IDENTIFICATION

Product Identifier

Product Name SPLASH RV & Marine Antifreeze -50°F

Other means of identification

Part # 619527 (1 gallon), 619525 (2.5 gallon), 900956 (55 gallon drum), 483951 (250 gallon tote)

UN/ID No UN1993

Recommended use of the chemical and restrictions on use

Recommended Use Antifreeze.

Details of the supplier of the safety data sheet

Manufacturer Address

FMP

1380 Corporate Center Curve, Suite 200

Eagan, MN 55121 Phone: 888-784-0802

Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

AppearancePink liquidPhysical stateLiquidOdorSlight alcohol

Classification

Serious eye damage/eye irritation	Category 2
Flammable Liquids	Category 3

Signal Word Warning

Hazard statements

Causes serious eye irritation Flammable liquid and vapor





Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ethyl Alcohol	64-17-5	10-15
Glycerol	56-81-5	1-5

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. If irritation occurs, get medical attention.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

Hazardous Combustion Products Smoke, fumes or vapors, and oxides of carbon.

Explosion Data

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear protective

gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures

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against static discharges.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	_

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Showers.

Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection **Eye/Face Protection**

regulations.

Skin and Body Protection Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate

skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid **Appearance** Pink liquid Odor Slight alcohol **Odor Threshold** Color Pink Not determined

Remarks • Method Property Values

Ha 8.2

Melting point / freezing point 82.2 °C / 180 °F **Boiling Point / Boiling Range** Not determined Flash Point 40 °C / 104 °F **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined

Flammability Limit in Air

Upper Flammability Limit Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined **Vapor Density** Not determined **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined Not determined **Dynamic Viscosity Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure

Eye Contact Causes serious eye irritation.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Glycerol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h
1,2 Propanediol 57-55-6	= 20 g/kg(Rat)	= 20800 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol 64-17-5	A3	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 50,071.54 mg/kg

ATEmix (inhalation-dust/mist) 5.79 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Component information			T
Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethyl Alcohol		13400 - 15100: 96 h Pimephales	9268 - 14221: 48 h Daphnia magna
64-17-5		promelas mg/L LC50 flow-through	mg/L LC50 2: 48 h Daphnia magna
		100: 96 h Pimephales promelas	mg/L EC50 Static 10800: 24 h
		mg/L LC50 static 12.0 - 16.0: 96 h	Daphnia magna mg/L EC50
		Oncorhynchus mykiss mL/L LC50	
		static	

Glycerol		51 - 57: 96 h Oncorhynchus mykiss	500: 24 h Daphnia magna mg/L
56-81-5		mL/L LC50 static	EC50
1,2 Propanediol	19000: 96 h Pseudokirchneriella	710: 96 h Pimephales promelas	1000: 48 h Daphnia magna mg/L
57-55-6	subcapitata mg/L EC50	mg/L LC50 51600: 96 h	EC50 Static 10000: 24 h Daphnia
		Oncorhynchus mykiss mg/L LC50	magna mg/L EC50
		static 51400: 96 h Pimephales	
		promelas mg/L LC50 static 41 - 47:	
		96 h Oncorhynchus mykiss mL/L	
		LC50 static	

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Mobility	
Chemical Name	Partition Coefficient
Ethyl Alcohol 64-17-5	-0.32
Glycerol 56-81-5	-1.76

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Ethyl Alcohol	Toxic
64-17-5	Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT FOR PART #619527 (1 gallon), 619525 (2.5 gallon), 900956 (55 gallon drum)

NOT REGULATED PER 49 CFR 173.150(f)(2) "Combustible liquids in non-bulk packages"

FOR PART #483951 (250 gallon tote)

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Ethyl alcohol)

Hazard Class 3
Packing Group III

<u>IATA</u> FOR ALL PART NUMBERS/ PACKAGE SIZES

UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Ethyl alcohol)

Hazard Class 3

Packing Group III

IMDG FOR ALL PART NUMBERS/ PACAKGE SIZES

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Ethyl alcohol)

Hazard Class 3
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethyl Alcohol	Х	Х	Х	Χ	Х	Χ	Х	Х
Glycerol	Х	Х	Х	Х	Х	Х	Х	Х
1,2 Propanediol	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen
	Developmental

U.S. State Right-to-Know Regulations

New Jersey	Massachusetts	Pennsylvania
Χ	X	X
Y	Y	Y
^	^	^
Х		X
	New Jersey X X	New Jersey Massachusetts X X X X

16. OTHER INFORMATION

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Health Hazards NFPA **Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **HMIS Health Hazards Flammability Physical hazards Personal Protection** Not determined Not determined Not determined Not determined

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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.

End of Safety Data Sheet