

# SAFETY DATA SHEET

Issue Date 01-Jan-2012 Revision Date: 04-Jan-2023 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name Extreme Klean Flush Solvent

Other means of identification

**SDS #** FJC-002

**UN/ID No Product Code**UN1993
#2400, #2401

Recommended use of the chemical and restrictions on use

**Recommended Use** A/C flush solvent.

Details of the supplier of the safety data sheet

**Supplier Address** 

FJC

101 Commercial Drive Mooresville, NC 28115

**Emergency Telephone Number** 

Company Phone Number Phone: 704-664-3587

Fax: 704-664-5522

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

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

# Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Liquids	Category 2

## Signal Word

Danger

# **Hazard Statements**

Causes skin irritation
Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

May be fatal if swallowed and enters airways

Highly flammable liquid and vapor



Appearance White liquid

Physical State Liquid

Odor Hydrocarbon

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area 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

Keep cool

### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

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

Wash contaminated clothing before reuse

If skin irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical attention if symptoms persist

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do not induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# **Hazards Not Otherwise Classified (HNOC)**

May be harmful in contact with skin

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Heptane	142-82-5	70-80
Isopropyl alcohol	67-63-0	20-30

### 4. FIRST-AID MEASURES

#### **First Aid Measures**

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

**Skin Contact** Flush with water. Take off contaminated clothing. Wash contaminated clothing before

reuse. If skin is damaged, seek immediate medical attention. If skin is not damaged and

symptoms persist, seek medical attention.

**Inhalation** If symptoms are experienced, remove source of contamination or move victim to fresh air. If

symptoms persist, call a physician. If breathing is difficult, give oxygen. Keep patient warm

and at rest. Seek immediate medical attention/advice.

Ingestion Do not induce vomiting. Do not leave victim unattended. If drowsy or unconscious, do not

give anything by mouth; place individual on the left side with head down. Seek medical

attention immediately.

## Most important symptoms and effects

Symptoms Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion

or loss of coordination. May cause nausea, vomiting, stomach ache, and diarrhea. May

cause severe eye irritation and pain associated with redness and swelling of the

conjunctiva. May include redness, drying and cracking of skin.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Preexisting disorders of the following organs (or organ systems)

may be aggravated by exposure to this material: skin, lungs (for example, asthma-like conditions), kidney, and auditory system. Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material. Inhalation of high concentrations of this material, as could occur in enclosed

spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Administration of high doses of isopropanol in combination with known hepatotoxic

chemicals resulted in enhanced liver toxicity in experimental animals.

# 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

# **Specific Hazards Arising from the Chemical**

Vapors are heavier than air and may spread along floors. Vapors may travel to source of ignition and flash back. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite/explode.

Hazardous Combustion Products Carbon dioxide (CO2). Carbon monoxide. Hydrocarbons.

**Sensitivity to Static Discharge** Sensitive to 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 Precautions

Use personal protection recommended in Section 8. Persons not wearing proper personal

protective equipment should be excluded from area of spill. Remove all sources of ignition.

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. If run-off occurs, notify

proper authorities, as required, that a spill has occurred.

#### 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

Use a non-combustible material like vermiculite or sand to soak up the product and place

into a container for later disposal.

### 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on Safe Handling Wash face, hands, and any exposed skin thoroughly after handling. Use personal

protection recommended in Section 8. Avoid breathing vapors or mists. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Follow all SDS/label precautions even after container is emptied because it may retain product residues. Avoid contact with skin and eyes. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. WARNING. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "auto-ignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

**Incompatible Materials** Acetaldehyde. Acids. Chlorine. Ethylene oxide. Isocyanates. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

The following information is given as general guidance Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Heptane	STEL: 500 ppm	TWA: 500 ppm	IDLH: 750 ppm
142-82-5	TWA: 400 ppm	TWA: 2000 mg/m <sup>3</sup>	Ceiling: 440 ppm 15 min
		(vacated) TWA: 400 ppm	Ceiling: 1800 mg/m <sup>3</sup> 15 min
		(vacated) TWA: 1600 mg/m <sup>3</sup>	TWA: 85 ppm
		(vacated) STEL: 500 ppm	TWA: 350 mg/m <sup>3</sup>
		(vacated) STEL: 2000 mg/m <sup>3</sup>	-
Isopropyl alcohol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m <sup>3</sup>	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m <sup>3</sup>
		(vacated) TWA: 980 mg/m <sup>3</sup>	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m <sup>3</sup>
		(vacated) STEL: 1225 mg/m <sup>3</sup>	

#### **Appropriate engineering controls**

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

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear approved safety goggles.

Skin and Body Protection Chemical resistant, impermeable gloves. Wear appropriate clothing to prevent repeated or

prolonged skin contact.

**Respiratory Protection**No respiratory protection is necessary during normal use conditions. In the case of

insufficient ventilation or if exposure limits are exceeded, use a suitable NIOSH/MSHA

respiratory device.

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 StateLiquidAppearanceWhite liquidOdorHydrocarbonColorWhiteOdor ThresholdNot determined

Property Values Remarks • Method

pH No data

Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range No data

Flash Point -10 °C / 14 °F

Flash Point -10 °C / 14 °F Tag Closed Cup Evaporation Rate 1 (ethyl ether=1) Flammability (Solid, Gas)

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density
Specific Gravity
Water Solubility
No data
No data
Not determined
Not determined
Insoluble in water

Water Solubility Insoluble in wat
Solubility in other solvents Not determined
Partition Coefficient No data
Autoignition Temperature No data

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<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Decomposition Temperature

Kinematic Viscosity

Dynamic Viscosity

Explosive Properties

Oxidizing Properties

Not determined
Not determined
Not determined
Not determined
Not determined
Not determined

Additional Information Water content <0.2 wt%

**VOC Content (%)** 100% **Density** 5.92 lb/gal

# 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.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Do not use with aluminum equipment at temperatures above 120° F.

#### **Incompatible Materials**

Acetaldehyde. Acids. Chlorine. Ethylene oxide. Isocyanates. Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon dioxide (CO2). Carbon monoxide. Hydrocarbons.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May be harmful in contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Heptane	-	= 3000 mg/kg ( Rabbit )	= 103 g/m³ (Rat) 4 h
142-82-5			
Isopropyl alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12870	= 72.6 mg/L (Rat)4 h
67-63-0		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

Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		Х

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

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

X - Present

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

**Aspiration hazard** 

May be fatal if swallowed and enters airways.

### **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Heptane		375.0: 96 h Cichlid fish mg/L		10: 24 h Daphnia magna
142-82-5		LC50		mg/L EC50
Isopropyl alcohol	1000: 96 h Desmodesmus	9640: 96 h Pimephales		13299: 48 h Daphnia magna
67-63-0	subspicatus mg/L EC50	promelas mg/L LC50 flow-		mg/L EC50
	1000: 72 h Desmodesmus	through 11130: 96 h		
	subspicatus mg/L EC50	Pimephales promelas mg/L		
		LC50 static 1400000: 96 h		
		Lepomis macrochirus µg/L		
		LC50		

### Persistence/Degradability

Not determined

# **Bioaccumulation**

Not determined

### **Mobility**

Chemical Name	Partition Coefficient
Heptane 142-82-5	4.66
Isopropyl alcohol 67-63-0	0.05

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

**Disposal of Wastes**Dispose of in accordance with federal, state and local regulations. For assistance with your

waste management needs – including disposal, recycling and waste stream reduction,

contact Ashland Distribution's Environmental Services Group at 800-637-7922.

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

regulations.

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

Chemical Name	California Hazardous Waste Status
Heptane	Toxic
142-82-5	Ignitable
Isopropyl alcohol	Toxic
67-63-0	Ignitable

# 14. TRANSPORT INFORMATION

**Note** Based on package size, part #2400 is eligible for the limited quantity exception.

DOT

UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Heptanes, Isopropanol)

Hazard Class 3
Packing Group II

<u>IATA</u>

UN/ID No UN1993

**Proper Shipping Name** Flammable liquid, n.o.s. (Heptanes, Isopropanol)

Hazard Class 3
Packing Group ||

<u>IMDG</u>

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (Heptanes, Isopropanol)

Hazard Class 3
Packing Group II

# 15. REGULATORY INFORMATION

# International Inventories

Not determined

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

### US Federal Regulations

### SARA 311/312 Hazard Categories

Acute Health Hazard Yes Fire Hazard Yes

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	20-30	1.0

### **US State Regulations**

# **California Proposition 65**

This product contains a chemical known in the State of California to cause cancer: benzene. This product contains a chemical known in the State of California to cause birth defects or other reproductive harm: toluene, benzene.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Heptane	X	X	X
142-82-5			
Isopropyl alcohol	X	X	X
67-63-0			

# **16. OTHER INFORMATION**

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	1	3	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1*	3	0	Not determined

Chronic Hazard Star Legend \*= Chronic Health Hazard

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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**