



FORMULA FIVE® Mold Cleaner

Version 1.1 SDS EN

Revision Date: 2 March 2016

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dangerous to the person providing aid. If decomposition products are inhaled in a fire, severely delayed and exposed person may need to be kept under medical surveillance for at least 24 hours.

If swallowed: Seek immediate medical attention. Rinse mouth with water and remove any remaining material. If material has been swallowed and individual is conscious provide individual with small sips of water to drink. If exposed individual feels nauseous discontinue providing water. Do not induce vomiting unless directed to do so by medical personnel. If spontaneous vomiting occurs keep individual's head tilted to prevent aspiration into lungs. Do not leave individual unattended.

4.2 Most important symptoms and effects

4.2.1 Acute symptoms and effects

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin.

Inhalation: Generates harmful vapours that are irritating to the respiratory system. Prolonged exposure can cause harm to affected organs by route of entry and decomposition products may cause a health hazard. Serious effects may occur.

Ingestion: Aspiration hazard Harmful or fatal if swallowed. If vomiting occurs keep victim's head below hips. Swallowing may cause nausea, vomiting, and pneumonitis may not appear for several days.

4.2.2 Delayed symptom

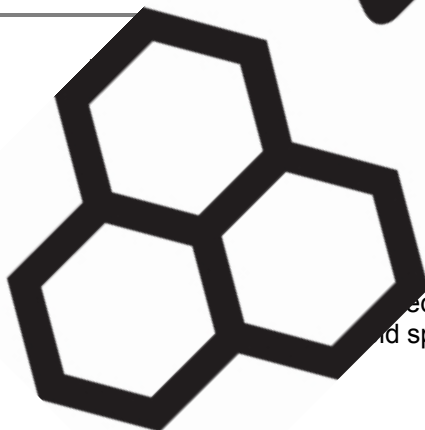
Eye contact: Watering, redness, irritation.

Skin contact: Redness, irritation.

Inhalation: Redness, irritation.

Ingestion: Nausea, vomiting.

COMPOSITIONS ENVISIONS



Use dry powder extinguisher. Do not use water. Follow procedure for chemical fires. Use dry chemicals, carbon dioxide, or other extinguishing measures that are appropriate to local circumstances and conditions.

Extinguishing media: Water may be unsuitable as an extinguishing media but helpful in keeping fire from spreading burning liquid with water used for cooling purposes. Do not use water on burning liquid.

5. Hazards arising from the substance or mixture

Highly flammable liquid and vapour. Pressure may increase and cause container rupture or explosion if heated or in a fire. Runoff may create fire or explosion hazard. Water used to extinguish fire may be hazardous.

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contaminated with material and must be prevented from entering sewer, drain or waterways. Hazardous thermal decomposition products may include carbon dioxide, carbon monoxide and nitrogen oxides.

5.3 Advice for firefighters

Remove individuals from vicinity of fire. Remove containers of material from area if safe to do so. Keep containers exposed to fire cool using water spray.

Special protective equipment for firefighters: Wear self-contained breathing apparatus with full face piece operated in positive pressure mode and protective clothing. Avoid inhalation and contact with skin and eyes.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Do not walk through or come in contact with spilled material. Keep sources of ignition and hot metal surfaces isolated from spill. Ensure adequate ventilation. If ventilation is not adequate then wear appropriate respirator. Avoid breathing vapor, mist and dust. Emergency responders should refer to Section 8 for information regarding appropriate material for specialized clothing.

6.2 Environmental precautions

Stop spill at source and prevent further leakage or spillage if safe to do so. Prevent product from entering drains, sewers, waterways or soil. If environmental contamination occurs, notify proper authorities. Collect spilled material for disposal according to local regulations.

6.3 Methods and materials for containment and cleaning up

Use explosion-proof equipment and spark-proof tools. In case of large spill, approach material from upwind. Confine spill and absorb with inert dry material. Contaminated absorbent material may pose same hazards as spilled product. Place into suitable, closed container for disposal. Dispose of in accordance with regional, national, and local laws and regulations.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling: For personal protection see Section 8. Smoking, eating, and drinking should be prohibited in the application area. Wash hands and face before eating, drinking or smoking. Avoid exposure during pregnancy. Contaminated clothing and personal protective equipment should be removed prior to entering areas employed for eating. Use personal protective equipment to avoid inhalation and contact with eyes, skin or clothing. Use with adequate ventilation or use appropriate respirator. Keep material in original container or one made from compatible material. Keep lid tightly closed when not in use. Empty containers may contain product residue such as hazardous vapors; continue to observe safe handling precautions.

Advice on protection against fire and explosion: Normal measures for preventive fire protection. Keep work areas free of hot metal surfaces and other sources of ignition. Use non-sparking tools and explosion-proof electrical equipment. Take measures to avoid electrostatic discharge.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container in cool, dry, well-ventilated and locked location. Keep away from ignition sources, incompatible materials, food and drink. Keep container tightly closed when not in use and store upright. Do not store in unlabeled container. Observe label precautions. Store in accordance with local regulations in segregated area.

8. Exposure controls/personal protection**8.1 Control parameters**

No data specific to this product. Exposure control information provided for components.

Component	OSHA ¹ (General Industry) Permissible Exposure Limit (PEL)	NIOSH ² Recommended Exposure Limit (REL)	ACGIH ³ Threshold Limit Value (TLV)
Ethyl methyl ketone	200 ppm TWA ⁴	200 ppm TWA	200 ppm TWA
Toluene	200 ppm TWA	100 ppm TWA	20 ppm TWA
Xylene	100 ppm TWA	100 ppm TWA	100 ppm TWA
Ethylbenzene	100 ppm TWA	100 ppm TWA	20 ppm TWA

¹ OSHA = Occupational Safety and Health Administration (U.S.)

² NIOSH = National Institute for Occupational Safety and Health (U.S.)

³ ACGIH = American Conference of Governmental Industrial Hygienists (U.S.)

⁴ TWA = 8-hour time weighted average

8.2 Exposure controls

Use with adequate ventilation. Use explosion-proof ventilation equipment. Keep exposures to airborne contaminants below recommended or statutory limits using local exhaust ventilation, process enclosures, or other engineering controls. Keep gas, vapour, or dust concentrations below lower explosive limits using engineering controls.

Personal protective equipment

Hand protection: Wear chemical resistant impervious gloves.

Eye protection: Safety glasses with side shields or goggles are recommended. Safety showers and eye wash stations should be located closed to work area.

Skin and body protection: Wear impervious clothing and shoes. Safety showers and eye wash stations should be located closed to work areas. Wear anti-static protective clothing if ignition from static discharge is possible.

Respiratory protection: Provide sufficient general and/or local exhaust. Use respirator if necessary to insure adequate ventilation.

Hygiene measures: Do not eat, drink, or smoke while using. Wash hands, forearms and face thoroughly before eating, drinking, smoking, using the toilet, before breaks and at the end of workday. Wash contaminated clothing or shoes prior to reuse.

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Environmental exposure controls

Prevent product from entering drains, sewers, waterways or soil. If environmental contamination occurs, notify proper authorities. Ensure that emissions from ventilation or work equipment comply with environmental protection regulations.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance: clear – white liquid

Odour: solvent

Odour threshold: no data available

pH: no data available

Melting point/freezing point: no data available / no data available

Initial boiling point and boiling range: 176 °F – 286 °F (80 °C – 140 °C)

Flash point: <73 °F (<23 °C)

Evaporation rate: >1 (n-Butyl Acetate = 1)

Flammability: no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: 0.82 – 0.86 (Water = 1)

Solubility(ies): immiscible in water

Partition coefficient: n-octanol/water: no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: <15 cps

Volatile organic content (actual VOC): 100%

10. Stability and reactivity**10.1 Reactivity**

No data specific to this product or its ingredients is available.

10.2 Chemical stability

Stable under normal conditions of use.



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10.3 Possibility of hazardous reactions

Will not occur under normal conditions of use and storage.

10.4 Conditions to avoid

Do not expose material or container to heat, sparks, open flames, hot surfaces, or other sources of ignition. Do not pressurize or cut containers.

10.5 Incompatible materials

Incompatible with oxidizing agents, strong acids, plastics.

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage. Combustion in the presence of oxygen may yield carbon dioxide and carbon monoxide.

11. Toxicological information

No data specific to this product. Toxicological information provided for components.

11.1 Information on toxicological effects

Acute toxicity

Component	Result	Species	Dose	Exposure
Ethyl methyl ketone	LC50 Inhalation Vapor	Rat	2000 ppm	-
Toluene	LD50 Oral	Rat	3000 mg/kg	-

Skin corrosion/irritation: no data available

Serious eye damage/irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

STOT - single exposure: no data available

STOT - repeated exposure: no data available

Aspiration hazard: no data available

11.2 Potential acute health effects

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin.



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Inhalation: Generates harmful vapours that are irritating to respiratory system. Acute overexposure can cause harm to affected organs by route of entry and serious nervous system depression. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Aspiration hazard Harmful or fatal if swallowed. Do not induce vomiting. If spontaneous vomiting occurs keep victim's head below hips to prevent aspiration into lungs. Do not leave individual unattended. Swallowing may cause nausea, vomiting, diarrhea, and abdominal irritation. Symptoms of chemical pneumonitis may not appear for several days.

12. Ecological information

No data specific to this product is available. Ecological information provided for components.

12.1 Toxicity

Aquatic toxicity (acute and chronic)

Component	Species	Exposure	Result
Toluene	Algae – Skeletonema costatum	96 hours	Acute EC50 433 ppm marine water
Toluene	Algae – Pseudokirchneriella subcapitata	72 hours	Acute EC50 12500 µg/L fresh water
Toluene	Crustaceans – Gammarus pседolimnaeus - adult	48 hours	Acute NOEC 116000 µg/L fresh water
Toluene	Daphnia – Daphnia magna – juvenile	48 hours	Acute EC50 6000 µg/L fresh water
Toluene	Fish – Oncorhynchus kisutch – fry	96 hours	Acute LC50 5500 µg/L fresh water
Toluene	Algae – Pseudokirchneriella subcapitata	96 hours	Chronic NOEC 500000 µg/L fresh water
Toluene	Daphnia – Daphnia magna	21 days	Chronic NOEC 1000 µg/L fresh water

Ecotoxicity: no data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility

No data available

12.5 Result of PBT and vPvB assesment

No data available



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12.6 Other adverse effects

No other adverse effects expected.

13. Disposal considerations






Dispose of in accordance with regional, national, and local laws and regulations.

13.1 Waste treatment methods

Material disposal: Do not dispose of waste into sewer. Do not contaminate ponds, waterways, or ditches with product or used container. Send to a licensed waste management company. Product may meet criteria for classification as a hazardous waste.

Container disposal: Empty remaining contents. Do not reuse empty containers. Empty containers may contain product residue such as hazardous vapors; continue to observe safe handling precautions. Do not expose containers to heat, sparks, open flames, hot surfaces, or other sources of ignition. Do not pressurize or cut containers.

14. Transport information

	DOT	ADR/RID	ADN	IMDG	IATA
UN Number	UN1993	UN1993	UN1993	UN1993	UN1993
UN Proper Shipping Name	Flamamble Liquid, n.o.s. (Ethyl Methyl Ketone, Toluene)	Flamamble Liquid, n.o.s. (Ethyl Methyl Ketone, Toluene)	Flamamble Liquid, n.o.s. (Ethyl Methyl Ketone, Toluene)	Flamamble Liquid, n.o.s. (Ethyl Methyl Ketone, Toluene)	Flamamble Liquid, n.o.s. (Ethyl Methyl Ketone, Toluene)
Transportation Hazard Class	3	3	3	3	3
Packing Group	II	II	II	II	II
Transportation Hazard Label					
Marine Pollutant	No	No	No	No	--

15. Regulatory information**15.1 Safety, health, and environmental regulations/legislation specific to the substance or mixture****National Inventories**

Australia (AICS): all components are listed or exempted

Canada (DSL): all components are listed or exempted

China (IECSC): not determined

Europe (EINECS): all components are listed or exempted

Japan (ENCS): all components are listed or exempted

Malaysia (EHSNR): not determined

SAFETY DATA SHEET



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New Zealand (NZIoC): not determined
Philippines (PICCS): not determined
Republic of Korea (KECI): all components are listed or exempted
Taiwan (NECI): not determined
United States (TSCA) all components are listed or exempted

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 311/312 Hazards:

Fire hazard, acute health hazard

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Component	CAS Number
Toluene	108-88-3
Xylene	1330-20-7
Ethylbenzene	100-41-4

State Right to Know

This product contains the following Right-To-Know substances:

Component	CAS Number	States
Toluene	108-88-3	California, Massachusetts, Minnesota, New Jersey, Pennsylvania, Rhode Island
Xylene	1330-20-7	Massachusetts, New Jersey, Pennsylvania
Ethylbenzene	100-41-4	Massachusetts, New Jersey, Pennsylvania

California Proposition 65

This product contains a chemical known to the state of California to cause cancer, reproductive, and/or developmental effects:

Component	CAS Number	Toxicity Type
Toluene	108-88-3	Reproductive
Ethylbenzene	100-41-4	Cancer

16. Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be construed as guaranteeing any specific property of the product. REXCO makes no warranty of any kind, express or implied, including warranties of merchantability or fitness for a particular purpose, concerning the safe use of this material in your process or in combination with other substances. Users should make their own tests and assessments as to the suitability of this product or the information contained herein for their particular purposes and uses.