

Section -2. HAZARD (S) IDENTIFICATION

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CLASSIFICATION OF THE MIXTURE:

ASPIRATION HAZARD - CATEGORY 1
FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (INHALATION) - CATEGORY 4
ACUTE TOXICITY, ORAL (CATEGORY 4)
ACUTE TOXICITY, DERMAL (CATEGORY 4)
SKIN SENSITIZATION - Category 1
SKIN IRRITATION (CATEGORY 2)
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
MUTAGEN, (CATEGORY 2)
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECTS) - CATEGORY 3
SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2
CHRONIC, AQUATIC - CATEGORY 4

GHS LABEL REQUIREMENTS

HAZARD PICTOGRAMS



SIGNAL WORD : DANGER

HAZARD STATEMENTS:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304
HIGHLY FLAMMABLE LIQUID AND VAPOR - (H225)
HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF INHALED- (H302+H312+H332)
CAUSES SERIOUS EYE DAMAGE - (H318)
MAY CAUSE AN ALLERGIC SKIN REACTION - (H317)
CAUSES SKIN IRRITATION - (H315)
SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)
MAY CAUSE DROWSINESS OR DIZZINESS - (H336)
SUSPECTED OF CAUSING GENETIC DEFECTS - (H341)
SUSPECTED OF CAUSING CANCER - (H351)
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H373)
MAY CAUSE HARM TO BREAST-FED CHILDREN - H362
MAY CAUSE RESPIRATORY IRRITATION - (H335)
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - (H413)

GENERAL PRECAUTIONARY STATEMENTS:

P101: If medical advice is needed, have product container or label at hand.
P102: keep out of reach of children.
P103: Read label before use.

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PRECAUTIONARY STATEMENTS:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
- P233: Keep container tightly closed.
- P240: Ground / bond container and receiving equipment.
- P241: Use explosion-proof electrical / ventilating / lighting /.../ equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe dust / fumes / gas / mist / vapors / spray.
- P261: Avoid breathing dust / fumes / gas / mist / vapors / spray.
- P263: Avoid contact during pregnancy / while nursing.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well - ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P281: Use personal protection equipment as required.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER / doctor / ...
- P301+312: IF SWALLOWED: Call a POISON CENTER / doctor / .../ if you feel unwell.
- P302+352: IF ON SKIN: Wash with plenty of water / ...
- P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
- P308+313: If exposed: Call a POISON CENTER or doctor / physician.
- P312: Call a POISON CENTER / doctor /... / if you feel unwell.
- P314: Get medical advise / attention if you feel unwell.
- P321: Specific treatment...See Label Information
- P322: Specific Measures...See Label Information
- P330: Rinse mouth
- P331: Do NOT induce vomiting.
- P332+313: If skin irritation occurs: Get medical advice / attention.
- P333+313: If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313: If eye irritation persists: Get medical advice / attention.
- P362: Take off all contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- P370+378: In case of fire: Use ... to extinguish.
- P403+233: Store in a well ventilated place. Keep container tightly closed.
- P403+235: Store in a well ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.

1-component mixtures: formaldehyde is released during the curing phase. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause the skin to become sensitized.

Avoid any contact with skin or clothing and wash thoroughly after handling.

Emits toxic fumes when heated.

Sanding and grinding dust may be harmful if inhaled.

HAZARDS NOT OTHERWISE CLASSIFIED:

Prolonged or repeated exposure may dry skin and / or cause skin irritation.

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Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mixture of organic compounds

For the hazards of the composition, (SDS see Section 2).

2 BUTANONE**Cas# 78-93-3****<=80% by weight**

OSHA HAZARDS: FLAMMABLE LIQUID,TARGET ORGAN EFFECT,IRRITANT

TARGET ORGANS: CENTRAL NERVOUS SYSTEM

GHS CLASSIFICATION: 2-BUTANONE

FLAMMABLE LIQUIDS (CATEGORY 2)

ACUTE TOXICITY,ORAL (CATEGORY 5)

ACUTE TOXICITY,INHALATION (CATEGORY 5)

EYE IRRITATION (CATEGORY 2A)

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE(CATEGORY3) CENTRAL NERVOUS SYSTEM.

Phenol, 3% <= conc <10%, aqueous solutions

Cas# 108-95-2**<= 20% by weight**

ACUTE TOXICITY,ORAL (CATEGORY 3) - H301

ACUTE TOXICITY, DERMAL (CATEGORY 3) - H311

ACUTE TOXICITY (INHALATION) - CATEGORY 3 - H331

SKIN CORROSION (CATEGORY 1B) - H314

MUTAGEN, (CATEGORY 2) - H341

SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2 - H373

Section -4. FIRST-AID MEASURES

General: When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

Eye contact: Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

Recommended: Universal resistant foam, CO2, water, powder.

Agents to avoid: None known

Attention

Promptly remove all persons in the event of a fire from the fire area. If safe to do so, remove all containers from fire area as well.

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

Emits toxic fumes when heated.

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HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE: CARBON DIOXIDE, CARBON MONOXIDE, HALOGENATED COMPOUNDS, AND METAL OXIDE / OXIDES, SMOKE, CORROSIVE VAPORS, SULFUR OXIDES, UNIDENTIFIED ORGANIC COMPOUNDS, FLAMMABLE GASES, OXIDES OF CARBON AND NITROGEN, AIRBORNE SOLIDS, AND OTHER HAZARDOUS MATERIALS.

Section -6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Clean-up with a detergent/ water mix ; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

7.2 Storage:

Observe label precautions. Store between 32/F and 95/F (0/C and 35/C) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

8.2 Exposure limits

Work place exposure limits (8 hour)

Substance	OSHA	ACGIH TLV
2-BUTANONE (MEK) *	200 ppm	200 ppm
Phenol, 3% <= conc <10%, aqueous solutions *	5 ppm (TWA)	5 ppm (TWA)
* can be absorbed through skin		

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8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

Respiratory protection :

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

Hand protection :

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

Eye protection :

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

Skin protection :

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|--|
| <ul style="list-style-type: none">• Physical state at: 68 ° F (20 ° C) Liquid• Flash point: 3 Deg. C--- 38 Deg. F Method: TCC• Specific gravity at: 68 ° F (20 ° C) .88 g/cm³• Vapor Density: 2.41• Lower Explosive Limit-2.3• Upper Explosive Limit- 11.0• Miscibility in water at 20 ° C: Moderate | <ul style="list-style-type: none">• Ph : 6.0• Volatile % by volume: 84.0 %• Vapor pressure at: 68 ° F (20 ° C) 46 mm Hg• Color: RED• Appearance: SYRUP• Odor: Ketone odor• Boiling Point: N/A• Material Supports Combustion : Yes |
|---|--|

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as :

- | | | |
|---|--|--|
| <ul style="list-style-type: none">• Carbon Monoxide• Carbon Dioxide• Smoke• Corrosive vapors• Toxic Fumes | <ul style="list-style-type: none">• Halogenated Compounds• Oxides of Carbon and Nitrogen• Metal Oxide / Oxides• Sulfur Oxides | <ul style="list-style-type: none">• Unidentified Organic Compounds• Flammable Gases• Other Hazardous Materials• Airborne Solids |
|---|--|--|

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deaths, skeletal malformations, and in extreme cases loss of consciousness. Repeated or prolonged contact with the preparation may cause Defatting of the skin resulting in non-allergic dermatitis and absorption through the skin.

The liquid splashed in the eyes causes serious eye irritation and damage.

Irritating to mouth, throat and stomach. Ingestion causes reduced fetal weight, increased fetal deaths and skeletal malformations

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ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 Hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 ORAL	Rat	2737 mg/kg	-
Phenol, 3%<= conc <10% aqueous solutions	ATE US (ORAL)		100 mg/kg Body Weight	
	ATE US (DERMAL)		300 mg/kg Body Weight	
	ATE US (GASES)		700 ppmV/4h	
	ATE US (VAPORS)		3 mg/l/4h	
	ATE US (DUST, MIST)		.5 mg/4h	

Harmful if Swallowed

Harmful if Inhaled

Harmful if in Contact with the Skin

Suspected of Causing Cancer. Risk depends on level and duration of exposure.

Causes Serious Eye Damage

May Cause Respiratory Irritation

May Cause Skin Irritation

May Cause an Allergic Skin Reaction

Suspected of Damaging the Unborn Child.

May Cause Drowsiness and Dizziness

May Cause Harm to Breastfed Children

Suspected of Causing Genetic Defects

May Cause Damage to Organs Through Prolonged or Repeated Exposure

May Be Fatal if Swallowed and Enters Airways

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP	CAS#
Formaldehyde *	1		2	50-00-0

* Not Present in Reportable Quantities

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

BUTANONE - CATEGORY 3

ASPIRATION TOXICITY:

Aspiration into the lungs when swallowed or vomited can be fatal.

TARGET ORGANS: BRAIN, BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, HEART, PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS AND/OR CORNEA. CARDIOVASCULAR SYSTEM, NERVOUS SYSTEM.

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12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

TOXICITY:

BUTANONE Cas#78-93-3

Lepomis Macrochirus	LC50	1690 mg/l	(LETHAL)	96 HRS
Daphnia Magna	EC50	308 mg/l	(LOCOMOTOR EFFECT)	48 HRS
Pimephales Promelas	LC50	2990 mg/l		96 HRS

PERSISTENCE and DEGRADABILITY:

BUTANONE - Readily biodegradable in water. Biodegradable in soil.

Biochemical Oxygen Demand (BOD) - 1.92 g O₂/g substance

Chemical Oxygen Demand (COD) - 2.31 g O₂/g substance

THOD - 2.44 g O₂/g substance

BOD (% of THOD) - >% THOD (5 days) > 0.5

Phenol, 3% <= conc <10% aqueous solutions - Readily biodegradable in water. Biodegradable in soil.

Biochemical Oxygen Demand (BOD) - 1.68 g O₂/g substance

Chemical Oxygen Demand (COD) - 2.28 g O₂/g substance

THOD - 2.38 g O₂/g substance

BOD (% of THOD) - 0.71 % THOD

Bioaccumulative Potential :

Product / Ingredient	LogP(ow)	BCF	Potential
Butanone	.29	-	low
Phenol, 3% <= conc <10%, aqueous solutions :	1.46	1276-1496 (Pimephales Promelas)	

Mobility in Soil : Not Available

13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations.

Dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or landfill.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

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14. TRANSPORT INFORMATION

DOT: § 172.101 HAZARDOUS MATERIALS TABLE
 UN Number: 1133
 Proper Shipping Name: Adhesives
 Labels: Flammable Liquid

IATA:
 UN Number: 1133
 Proper Shipping Name: Adhesives
 Labels: Flammable Liquid



Hazard Class: 3 Subclass: NO
 Packaging Group: II
 Passenger Air Packing Instruction : 309
 Passenger aircraft: 60 Liter (16 gallon)
 Cargo Air Packing Instruction : 310
 Cargo aircraft only: 220 Liter (58 gallon)

Hazard Class: 3 Subclass: NO
 Packaging Group: II
 Limited Quantity: Passenger aircraft: 60 Liter (16 gallon)
 Cargo aircraft only: 220 Liter (58 gallon)
 Vessel stowage: A
 ERG: 128
 NMFC: 4620 SUB.6 – CL.60
 Schedule B # 3506.91.0000

IMDG:
 UN Number: 1133
 Proper Shipping Name: Adhesives
 Label: 3
 Hazard Class: 3 Subclass: NO
 Packaging Group: II
 EMS No: F, E – S, D

15. REGULATORY INFORMATION

US Regulations Federal

chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)	Chemical Name	CAS No	Weight %	Threshold limit (Reporting Value)
	2-BUTANONE	78-93-3	<=80%	Unknown
	Phenol, 3% <=conc <10% aqueous solutions	108-95-2	<=20%	Unknown

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

SARA SECTION 302

Phenol, 3% <= conc <10% aqueous solutions - CAS#108-95-2 - 500-10000 lbs (Threshold Planning Quantity)

SARA SECTION 304

Phenol, 3% <= conc <10% aqueous solutions - CAS#108-95-2 - 1000 lbs (Reportable Quantity)

SARA SECTION 311/312

Butanone: Fire Hazard, Immediate (acute) Health Hazard

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

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US Regulations State

California Proposition 65 (Developmental – Female)	2-BUTANONE	78-93-3	<15%	>=1.0%
Massachusetts	2-BUTANONE	78-93-3	<15%	>=1.0%
New Jersey	2-BUTANONE	78-93-3	<15%	>=1.0%
Pennsylvania	2-BUTANONE	78-93-3	<15%	>=1.0%
Rhode Island	2-BUTANONE	78-93-3	<15%	>=1.0%

California Prop. 65 : Warning

This product contains a chemical known by the State of California to cause cancer, birth defects and other reproductive harm.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Listed National Pollutant Release Inventory (NPRI):

2-BUTANONE CAS#78-93-3

Phenol, 3% <= conc <10% aqueous solutions - CAS#108-95-2

16. OTHER INFORMATION

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

* Customer and / or end user is responsible for determining Personal Protection Equipment

NFPA

HMIS

Preparer:

Flamemaster / Compliance

Revision Date 11/21/2019

Containers:

plastic jars, metal cans
cartridge kits

Limited Quantity

See SDS Section 14

Maximum container size 50 Gallons / 190 Liters

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Notice to reader:

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In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.

This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.

Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.

End of Safety Data Sheet