



FLAMEMASTER
 Flamemaster Corp.
 13576 Desmond Street
 Pacoima, CA 91331 - USA

SAFETY DATA SHEET
 APRIL 2015

File: CS3204AB GSA 7-10
 INTEGRAL FUEL TANK SEALANT
 BASE COMPOUND

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier: CS-3204 PART A CLASS B (TYPE 2) All Application Times
 - Product Name: Integral Fuel Tank Sealant / Base compound Part-A
 - Product reference: CS-3204 PT A CLASS B BASE COMPOUND

1.2. Product Use:
 -Integral Fuel Tank Sealant

1.3. Manufacturer's Name:
CAGE Code: 14439
Flamemaster Corp.
Chem Seal Division
13576 Desmond Street
Pacoima, CA 91333 – USA

1.3.1 Suppliers Name (if not manufacturer)

Technical Contact:
Flamemaster Corp.
 Tel: 818-890-1401
 Fax: 818-890-6001
www.flamemaster.com

1.4. Emergency Telephone:
 Chemtrec – Chemtrec International
 800-424-9300 (North America)
 703-527-3887 (Outside North America))

Specification:	AMS-S-8802	Base PT A	CLASS B	ALL	
NSN:	8030-00-753-5007 CS3204B1/2 2.5 OZ	8030-00-753-5004 CS3204B1/2 6OZ	8030-00-753-4597 CS3204B1/2 1/2 PINT	8030-00-174-2599 CS3204B1/2 PINT	8030-00-080-1549 CS3204B1/2 QUART
	8030-01-476-2255 CS3204B1/2 QUART	8030-00-841-6831 CS3204B1/2 GALLON	8030-00-964-1892 CS3204B1/2 5-GAL	8030-01-337-9408 CS3204B-1 2.5OZ	8030-01-376-8504 CS3204B-1 GALLON
	8030-00-753-5006 CS3204B-2 2.5 OZ	8030-00-753-5005 CS3204B-2 6 OZ	8030-00-753-4599 CS3204B-2 1/2 PINT	8030-00-723-2746 CS3204B-2 PINT	8030-00-262-9041 CS3204B-2 QUART
	8030-00-579-8453 CS3204B-2 GALLON	8030-00-878-8428 CS3204B-2 5-GAL	8030-00-850-0759 CS3204B-4 2.5 OZ	8030-00-850-0758 CS3204B-4 6OZ	8030-00-152-0013 CS3204B-2 6OZ(4.5)
	8030-00-932-1990 CS3204B-4 1/2 PINT	8030-00-174-2598 CS3204B-4 PINT	8030-00-850-5717 CS3204B-4 QUART	8030-00-602-0035 CS3204B-6	8030-00-685-0915 CS 3204 B2 QUART

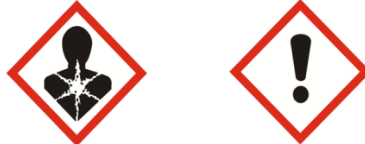
Section -2. HAZARD (S) IDENTIFICATION

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

CLASSIFICATION OF THE MIXTURE:

SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 11.6%

GHS LABEL REQUIREMENTS HAZARD PICTOGRAMS



SIGNAL WORD : WARNING

HAZARD STATEMENTS:

CAUSES SERIOUS EYE IRRITATION - (H319)
CAUSES SKIN IRRITATION - (H315)
SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)
SUSPECTED OF CAUSING CANCER - (H351)

PRECAUTIONARY STATEMENTS:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin (or in hair) : Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

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.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage, use and disposal are beyond our control and may be beyond our knowledge.

HAZARDS NOT OTHERWISE CLASSIFIED:

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

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mixture of organic compounds

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

GHS CLASSIFICATION:LIQUID POLYSULFIDE POLYMER // OSHA HAZARDS: TARGET ORGAN EFFECT,IRRITANT,FLAMMABLE LIQUID
EYE IRRITATION (CATEGORY 2)
SKIN IRRITATION (CATEGORY 2)
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)
AQUATIC, CHRONIC (CATEGORY 3)

GHS CLASSIFICATION:LIQUID POLYSULFIDE POLYMER // OSHA HAZARDS: TARGET ORGAN EFFECT,IRRITANT,FLAMMABLE LIQUID
EYE IRRITATION (CATEGORY 2)
SKIN IRRITATION (CATEGORY 2)
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)
AQUATIC, CHRONIC (CATEGORY 3)

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE
FLAMMABLE LIQUIDS (CATEGORY 2),H225
SKIN IRRITATION (CATEGORY 2),H315
REPRODUCTIVE TOXICITY (CATEGORY 2),H361
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3),CENTRAL NERVOUS SYSTEM,H336
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2),H373
ASPIRATION HAZARD (CATEGORY 1),H304
ACUTE AQUATIC TOXICITY (CATEGORY 2),H401

CALCIUM CARBONATE:

GHS CLASSIFICATION: CALCIUM CARBONATE
EYE DAMAGE (CATEGORY 1)
SKIN IRRITATION (CATEGORY 2)
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)

TITANIUM DIOXIDE

OSHA HAZARDS: CARCINOGEN
GHS CLASSIFICATION: TITANIUM DIOXIDE
SKIN IRRITATION: (CATEGORY 3)
CARCINOGENICITY (CATEGORY 2)

SUBSTANCE % by weight in the product	H&P STATEMENTS	CAS	EINECS/ELINCS
LIQUID POLYSULFIDE-POLYMER < 71%	H319,H335,H315,H412,H223, P210,P270,P305+P351+P338 +P313,P306+P361,P370+P260	N/A	POLYMER
LIQUID POLYSULFIDE-POLYMER < 71%	H319,H335,H315,H412,H223, P210,P270,P305+P351+P338 +P313,P306+P361,P370+P260	N/A	POLYMER
TOLUENE (Methylbenzene) < 3%	H225,H304,H315,H319,H332,H336, H361,H371,H401, P210P260,P281,P301+P310,P305+ P351+ P338,P331	108-88-3	203-625-9
Titanium Dioxide < 10%	H319,H335,H315,H332,H312,H302 H373,P305+P351+P313,P280+ P281,P262,P102,P280	13463-67-7	236-675-5
Calcium Carbonate <45%	H319 P305+P351+P313,P280	72608-12-9	207-439-9

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: Remove any contact lenses if present and easy to do. Irrigate with clean, fresh water for at least 15 minutes, holding the eye lids apart, and 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. 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.

Do not allow run-off from fire fighting to enter drains or water courses.

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE: CARBON DIOXIDE, CARBON MONOXIDE, HALOGENATED COMPOUNDS, METAL OXIDE / OXIDES AND FORMALDEHYDE

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.

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. Wash hands and face before eating, drinking, or smoking.

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 TWA
ALIPHATIC POLYSULFIDE-POLYMER	Not known	Not known
ALIPHATIC POLYSULFIDE-POLYMER	Not known	Not known
TOLUENE (Methylbenzene)*	200 ppm	20 ppm
CALCIUM CARBONATE *	5 mg/m ³ (RESPIRABLE FRACTION)	3 mg/m ³ (RESPIRABLE FRACTION)
CALCIUM CARBONATE *	15mg/m ³ (TOTAL DUST)	10 mg/m ³ (TOTAL DUST)
TITANIUM DIOXIDE *	15mg/m ³ (TOTAL DUST)	10 mg/m ³ (TOTAL DUST)
* can be absorbed through skin		

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: 200 ° F (93 ° C) Method: TCC• Specific gravity at: 68 ° F (20 ° C) 1.52• Vapor Density: NIL• Lower Explosive Limit (% vol.): N/A• Upper Explosive Limit (% vol.): N/A• Miscibility in water at 20 ° C: NEGLIGIBLE• VOC: 16 g/l | <ul style="list-style-type: none">• Ph : 8.5• Volatile by VOLUME: 2%• Vapor pressure at: 68 ° F (20 ° C) NIL• Color: White• Appearance: PASTE• Odor: Polysulfide Odor• Boiling Point: Unknown• 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• Sulfur Oxides• Carbon Dioxide• Formaldehyde | <ul style="list-style-type: none">• Halogenated Compounds• Oxides of Carbon,Nitrogen,Sulfur Dioxide,Trace Hydrogen Sulfide• Metal Oxide / Oxides• Smoke |
|---|--|

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

Formaldehyde is released during curing.

ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Calcium Carbonate	LD50 ORAL	Rat	6450 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 Hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 Hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 ORAL	Rat	636 mg/kg	-
Titanium Dioxide	LD50 ORAL	Rat	>10g/kg	-

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer. Risk depends on level and duration of exposure.

Suspected of damaging the unborn child.

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP	CAS#
TOLUENE :	3	-	-	108-88-3
TITANIUM DIOXIDE :	2B	-	-	13463-67-7

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

LIQUID POLYMER - CATEGORY 3

LIQUID POLYMER - CATEGORY 3

TOLUENE - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)

TOLUENE - CATEGORY 2

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.

ASPIRATION HAZARD:

TOLUENE - CATEGORY 1

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)

Toxicity :

Product / Ingredient	Result	Species	Exposure
Titanium Dioxide	Acute LC50>100mg/l Fresh Water	Daphnia	48 Hours

Persistence and Degradability :

Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability
Toluene	-	-	Readily

Bioaccumulative Potential :

Product / Ingredient	LogP(ow)	BCF	Potential
Toluene	2.73	8.32	low

Mobility in Soil : Not Available

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

13. DISPOSAL CONSIDERATIONS

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

React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

14. TRANSPORT INFORMATION

DOT: Not regulated

UN Number: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

NMFC: 4620 SUB.5 – CL.60

Schedule B # 3506.91.0000

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
	TOLUENE (Methylbenzene)	108-88-3	<3%	1.0%
	LIQUID POLYMER	N/A	<70%	UNKNOWN
	LIQUID POLYMER	N/A	<70%	UNKNOWN
	Calcium Carbonate	72608-12-9	<45%	Unknown
	Titanium Dioxide	*13463-67-7	< 10%	15mg/m ³
	*(DELETED CAS# 98084-96-9)			

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

US Regulations State

California Proposition 65 (Developmental – Female)	TOLUENE	108-88-3	<3%	UNKNOWN
Massachusetts	TOLUENE	108-88-3	<3%	UNKNOWN
New Jersey	TOLUENE	108-88-3	<3%	UNKNOWN
Pennsylvania	TOLUENE	108-88-3	<3%	UNKNOWN
Rhode Island	TOLUENE	108-88-3	<3%	UNKNOWN
California Proposition 65 (Developmental – Female)	LIQUID POLYMER	N/A	<70%	UNKNOWN
Massachusetts	LIQUID POLYMER	N/A	<70%	UNKNOWN
New Jersey	LIQUID POLYMER	N/A	<70%	UNKNOWN
Pennsylvania	LIQUID POLYMER	N/A	<70%	UNKNOWN
Rhode Island	LIQUID POLYMER	N/A	<70%	UNKNOWN
California Proposition 65 (Developmental – Female)	LIQUID POLYMER	N/A	<70%	UNKNOWN
Massachusetts	LIQUID POLYMER	N/A	<70%	UNKNOWN
New Jersey	LIQUID POLYMER	N/A	<70%	UNKNOWN
Pennsylvania	LIQUID POLYMER	N/A	<70%	UNKNOWN
Rhode Island	LIQUID POLYMER	N/A	<70%	UNKNOWN
California Proposition 65 (Developmental – Female)	Calcium Carbonate	72608-12-9	<45%	UNKNOWN
Massachusetts	Calcium Carbonate	72608-12-9	<45%	UNKNOWN
New Jersey	Calcium Carbonate	72608-12-9	<45%	UNKNOWN
Pennsylvania	Calcium Carbonate	72608-12-9	<45%	UNKNOWN
Rhode Island	Calcium Carbonate	72608-12-9	<45%	UNKNOWN
California Proposition 65 (Developmental – Female)	Titanium Dioxide	13463-67-7	<10%	UNKNOWN
Massachusetts	Titanium Dioxide	13463-67-7	<10%	UNKNOWN
New Jersey	Titanium Dioxide	13463-67-7	<10%	UNKNOWN
Pennsylvania	Titanium Dioxide	13463-67-7	<10%	UNKNOWN
Rhode Island	Titanium Dioxide	13463-67-7	<10%	UNKNOWN

United States Inventory(TSCA 8B) : Not Determined
Australia Inventory (AICS) : Not Determined
Canada Inventory (DSL) : Not Determined
China Inventory (IECSC) : All Components Are Listed Or Exempted
Japan Inventory (ENCS) : At Least One Component Is Not Listed
Korea Inventory (KECI) : Not Determined
New Zealand (NZIoC) : Not Determined
Philippines Inventory (PICCS) : Not Determined
Europe Inventory (REACH) : Please contact your supplier concerning the status of this material

United States: Sara 302/304 (Sara 304 RQ): Not Applicable

Information On Ingredients: None Were Found

Sara 311/312

Classification: Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Information On Ingredients:

Polysulfide Polymer: Immediate (acute) Health Hazard

Polysulfide Polymer: Immediate (acute) Health Hazard

Toluene: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Titanium Dioxide: Delayed (chronic) Health Hazard

Sudden Release Of Pressure: No Products

Reactivity: No Products

California Prop. 65 : Warning

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

Canada



Class B – Flammable
TOLUENE



Class D - Poisonous and Infectious
materials Division 2: Materials Causing
Other Toxic Effects D2A TOLUENE D2B
TOLUENE CAS# 108-88-3
Liquid Polysulfide Polymer CAS# N/A
Liquid Polysulfide Polymer CAS# N/A
Titanium Dioxide CAS# 13463-67-7
Calcium Carbonate CAS# 72608-12-9

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):TOLUENE CAS:108-88-3

Calcium Carbonate CAS#72608-12-9

Liquid Polysulfide Polymer cas# N/A

Liquid Polysulfide Polymer cas# N/A

Titanium Dioxide CAS#13463-67-7

16. OTHER INFORMATION

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PPE	H

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PPE	H



NFPA

HMIS

PPE

Preparer: Flamemaster / Compliance
Rev-A 4/02/2015
Supersedes (conversion)

Revision Notes: A

Conversion to ANSI format

Containers: plastic jars, metal cans
cartridge kits

Limited Quantity See SDS Section 14

Maximum container size 50 Gallons / 190 Liters

End of Safety Data Sheet



FLAMEMASTER
Flamemaster Corp.
 13576 Desmond Street
 Pacoima, CA 91331 - USA

SAFETY DATA SHEET
FEBRUARY 2014

File: CS3204BB GSA 07-10
INTEGRAL FUEL TANK
SEALANT CATALYST

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier: CS-3204 Part B Class B (all application times)
 - Product Name: Integral Fuel Tank Sealant / Catalyst Part B
 - Product reference: CS-3204-B

1.2. Product Use:
 -Integral Fuel Tank Sealant

1.3. Manufacturer's Name:
CAGE Code: 14439
Flamemaster Corp.
Chem Seal Division
13576 Desmond Street
Pacoima, CA 91333 – USA

1.3.1 Suppliers Name (if not manufacturer)

Technical Contact:
Flamemaster Corp.
 Tel: 818-890-1401
 Fax: 818-890-6001
www.flamemaster.com

1.4. Emergency Telephone:
 Chemtrec – Chemtrec International
 800-424-9300 (North America)
 703-527-3887 (Outside North America))

	Specification: AMS-S-8802		Catalyst Part B		CLASS B	ALL
NSN:	8030-00-753-5007 CS3204B1/2 2.5 OZ	8030-00-753-5004 CS3204B1/2 6OZ	8030-00-753-4597 CS3204B1/2 1/2 PINT	8030-00-174-2599 CS3204B1/2 PINT	8030-00-080-1549 CS3204B1/2 QUART	
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	8030-00-753-5006 CS3204B-2 2.5 OZ	8030-00-753-5005 CS3204B-2 6 OZ	8030-00-753-4599 CS3204B-2 1/2 PINT	8030-00-723-2746 CS3204B-2 PINT	8030-00-262-9041 CS3204B-2 QUART	
	8030-00-579-8453 CS3204B-2 GALLON	8030-00-878-8428 CS3204B-2 5-GAL	8030-00-850-0759 CS3204B-4 2.5 OZ	8030-00-850-0758 CS3204B-4 6OZ	8030-00-152-0013 CS3204B-2 6OZ(4.5)	
	8030-00-932-1990 CS3204B-4 1/2 PINT	8030-00-174-2598 CS3204B-4 PINT	8030-00-850-5717 CS3204B-4 QUART	8030-00-602-0035 CS3204B-6	8030-00-685-0915 CS 3204 B2 QUART	

Section -2. HAZARD (S) IDENTIFICATION

ACUTE TOXICITY (ORAL) 4, H302

ACUTE TOXICITY (INHALATION) 4, H332

SKIN SENSITIZATION 1, H317

CARCINOGENICITY 2, H351

TOXIC TO REPRODUCTION (FERTILITY) 2, H361f

SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373

Percentage of mixture with ingredients of unknown toxicity is 9.5%

For A Complete List of H-Statements and Classifications See Section 16

OSHA / HCS STATUS : THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

HAZARD STATEMENTS:

Harmful by Inhalation and / or Swallowing

Irritating to Eyes and Skin

May Cause An Allergic Skin Reaction

Suspected of Causing Cancer

Suspected of Damaging Fertility

May Cause Damage to Organs Through Prolonged or Repeated Exposure

HAZARD PICTOGRAMS:



SIGNAL WORD:

WARNING

Full text of P statements associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin: Wash with plenty of soap and water
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

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HAZARDS NOT OTHERWISE CLASSIFIED: OXIDISING POTENTIAL: Contact with combustible material may result in fire. Keep away from combustible materials. This material increases the risk of fire and may aid in combustion.

Other Hazards that do not result in classification:

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

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mixture of organic compounds

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

CHEMICAL NAME: MANGANESE DIOXIDE OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION TARGET ORGANS: NERVES, LUNGS GHS CLASSIFICATION: ACUTE TOXICITY, ORAL (CATEGORY 4) - H302 ACUTE TOXICITY, INHALATION (CATEGORY 4) - H332	CAS# 1313-13-9	EC# 215-202-6	<65% by weight
CHEMICAL NAME: TERPHENYL, HYDROGENATED AQUATIC CHRONIC (CATEGORY 4) - H413	CAS# 61788-32-7	EC# 262-967-7	<50% by weight
CHEMICAL NAME: ZEOLITES NOT CLASSIFIED	CAS# 1318-02-1	EC# 215-283-8	<15% by weight
CHEMICAL NAME: TALC NOT CLASSIFIED	CAS# 14807-96-6	EC# 238-877-9	<10% by weight
CHEMICAL NAME: CARBON BLACK NOT CLASSIFIED	CAS# 1333-86-4	EC# 215-609-9	<10% by weight
CHEMICAL NAME: TERPHENYL AQUATIC ACUTE (CATEGORY 1) - H400 AQUATIC CHRONIC (CATEGORY 1) - H410	CAS# 26140-60-3	EC# 247-477-3	<10% by weight
CHEMICAL NAME: 1,3 DIPHENYLGUANIDINE ACUTE TOXICITY (CATEGORY 4) - H302 SKIN IRRITATION (CATEGORY 2) - H315 EYE IRRITATION (CATEGORY 2) - H319 REPRODUCTIVE (CATEGORY 2) - H361f (FERTILITY) STOT-SINGLE EXPOSURE (CATEGORY 3) - H335 AQUATIC CHRONIC (CATEGORY 2) - H411	CAS# 102-06-7	EC# 203-002-1	<3% by weight
CHEMICAL NAME: BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE SKIN SENSITIVITY (CATEGORY 1) - H317	CAS# 120-54-7	EC# 204-406-0	<3% by weight
CHEMICAL NAME: POLYPHENYL, QUARTER AND HIGHER	CAS# 68956-74-1		<10% by weight
MAGNESIUM CARBONATE	CAS# 546-93-0		<10% by weight

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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: Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek 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. 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

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.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous decomposition products include: Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides
Metal Oxide / Oxides

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.

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	ACGIH TLV
Manganese Dioxide	TWA: 0.1mg/m ³ (as Mn) 8 hours (Inhalable Fraction)
	TWA: 0.02mg/m ³ (as Mn) 8 hours (Respirable Fraction)
Terphenyl, Hydrogenated	TWA: 4.9 mg/m ³ 8 hours
	TWA: 0.5 ppm 8 hours
Zeolites	TWA: 1mg/m ³ 8 hours (Respirable Fraction)
Talc	TWA: 2mg/m ³ 8 hours (Respirable Fraction)
Carbon Black	TWA: 3mg/m ³ 8 hours (Inhalable Fraction)
Terphenyl	C: 5mg/m ³
	C: 0.53 ppm
MAGNESIUM CARBONATE	TWA: 5mg/m ³ (Respirable Fraction)
	TWA: 15 mg/m ³ 8 hours (Total Dust)

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Specific gravity at: 68 ° F (20 ° C) 2.0
- Vapor Density: N/A
- Lower Explosive Limit (% vol.): N/A
- Upper Explosive Limit (% vol.): N/A
- Miscibility in water at 20 ° C: NEGLIGIBLE
- Material Supports Combustion. : Yes
- Ph : 9.0
- % VOLATILE BY VOLUME - 2.0
- Vapor pressure at: 68 ° F (20 ° C) N/A
- Color: BLACK
- Appearance: PASTE
- Odor: NEGLIGIBLE OILY ODOR
- Boiling Point: 360° C (680° F)

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 :

- Carbon monoxide
- Sulfur oxides
- Carbon Dioxide
- Oxides of nitrogen
- Metal Oxide / Oxides
- Manganese Compounds
- Smoke

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

ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Manganese Dioxide	LD50 ORAL	Rat	3478 mg/kg	-
Terphenyl,Hydrogenated	LD50 ORAL	Rat	17500 mg/kg	-
Zeolites	LD50 ORAL	Rat	>5 g/kg	-
Carbon Black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400mg/kg	-
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	-
Magnesium Carbonate	LD50 Oral	Rat	8000mg/kg	-
1, 3-Diphenylguanidine	LD50 Oral	Rat	323mg/kg	-

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP
Zeolites	3	-	-
Carbon Black, Respirable Powder	2B	-	-

Acute Toxicity Estimates:

Oral: 1099.7 mg/kg

Inhalation (gases): 10532.1 ppm

Inhalation (vapors) : 25.75 mg/l

Inhalation (Dust and Mist): 3.511mg/l

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Specific Target Organ Toxicity (STOT)- Single Exposure

1,3-Diphenylguanidine - (Category 3)

Zeolites - (Category 3)

Talc - (Category 3)

This Product is Harmful if Swallowed or Inhaled.

This Product also Causes Serious Eye Irritation.

This Product Causes Skin Irritation, Defatting of the Skin, and May Cause an Allergic Reaction.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Manganese Dioxide - (Category 2)

Potential chronic health effects include the following:

May cause damage to organs through prolonged or repeated exposure. May lead to defatting of the skin and / or irritation.

May lead to allergic reactions.

Suspected of causing cancer.

Suspected of damaging fertility

Target Organs: lungs, skin, central nervous system, blood, kidneys, nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens, cornea

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)

Bioaccumulative Potential:

Product	LogPow	BCF	Potential
1,3 Diphenylguanidine	1.69	19.95	Low
Bis(piperidinothiocarbonyl) tetrasulfide	2.8	16.98	Low

Mobility in Soil:

Not Available

13. DISPOSAL CONSIDERATIONS

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

React with base and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

14. TRANSPORT INFORMATION

DOT: Not regulated

UN Number: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

NMFC: 4620 SUB.5 – CL.60

Schedule B # 3506.91.0000

15. REGULATORY INFORMATION

United States Inventory(TSCA 8B) : All Components are Listed or Exempted

Australia Inventory (AICS) : All Components are Listed or Exempted

Canada Inventory (DSL) : All Components are Listed or Exempted

China Inventory (IECSC) : All Components Are Listed Or Exempted

Japan Inventory (ENCS) : All Components are Listed or Exempted

Korea Inventory (KECI) : All Components are Listed or Exempted

New Zealand (NZIoC) : All Components are Listed or Exempted

Philippines Inventory (PICCS) : All Components are Listed or Exempted

Europe Inventory (REACH) : Please contact your supplier concerning the status of this material

Other EU Regulations:

1,3-Diphenylguanidine - Reproductive (Category 2) H361f (Fertility)

SARA 311/312

Classification: Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition of Ingredients :

Manganese Dioxide : Immediate (acute) health hazard

Delayed (chronic) health hazard

Zeolites : Immediate (acute) health hazard

Polyphenyls, quarter and higher : Immediate (acute) health hazard

Talc : Immediate (acute) health hazard

Carbon Black : Fire Hazard

Delayed (chronic) health hazard

Terphenyl : Immediate (acute) health hazard

1,3-Diphenylguanidine : Fire Hazard

Immediate (acute) health hazard

Delayed (chronic) health hazard

Bis(piperidinothiocarbonyl) : Fire Hazard

tetrasulfide : Immediate (acute) health hazard

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
	Manganese Dioxide	1313-13-9	<65%	Unknown

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

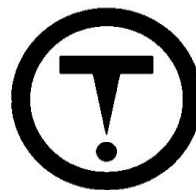
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

US Regulations State

California Proposition 65 (Developmental – Female)	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
Massachusetts	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
New Jersey	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
Pennsylvania	MANGANESE DIOXIDE	1313-13-9	<65%	unknown
Rhode Island	MANGANESE DIOXIDE	1313-13-9	<65%	unknown

California Prop 65 Warning :

This Product contains one or more ingredients known by the state of California to cause cancer.



materials Division 2: Materials Causing Other Toxic Effects:
Manganese Dioxide CAS#1313-13-9

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):Manganese Dioxide cas#1313-13-9

HEALTH	3	HEALTH	3
FLAMMABILITY	1	FLAMMABILITY	1
REACTIVITY	1	REACTIVITY	1
(OSHA) PPE	G	(OSHA) PPE	G



NFPA

HMIS

PPE

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Section 16 Other Information

Full Text of H Statements Associated with this Compound:

ACUTE TOXICITY (ORAL) 4, H302
ACUTE TOXICITY (INHALATION) 4, H332
SKIN SENSITIZATION 1, H317
CARCINOGENICITY 2, H351
TOXIC TO REPRODUCTION (FERTILITY) 2, H361f
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373

Full Text of Classifications Associated with this Compound:

Acute Tox. 4, H302 : ACUTE TOXICITY (ORAL) - CATEGORY 4
Acute Tox. 4, H332 : ACUTE TOXICITY (INHALATION) - CATEGORY 4
Reproductive 2, H361f : TOXIC TO REPRODUCTION (FERTILITY) - CATEGORY 2
Skin Sensitization 1, H317 : SKIN SENSITIZATION - CATEGORY 1
STOT RE 2, H373 : SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - CATEGORY 2
Carcinogenicity 2, H351 : CARCINOGENICITY - CATEGORY 2

Preparer-Flamemaster/Compliance
Rev A April 2015
Supercedes(Conversion)

Revision Notes: A

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

END OF SAFETY DATA SHEET