

Safety Data Sheet
 according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
 GHS HCS 2012

Trade name: Clean Flush Powder

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Clean Flush Powder CF-ST1700STBP33, CF-ST1705AEBP33
- **Article number:** BP33
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
- **Application of the substance / the preparation**
 Holding tank deodorant

Product dilution information: 1 full rounded tablespoon per gallon of water or one 18-ounce bottle per 50 gallons of water.
 For packets: add one 6 gram packet per two quarts of water.

- **1.3 Details of the supplier of the Safety Data Sheet**

Aircraft Technologies, Inc.
 3650 Highpoint Street
 San Antonio, Texas 78217
 Phone: 210-590-6858
 FAX: 210-590-7509
 Email: dnripper@aircrafttech.com
 Website: www.aircrafttech.com



- **1.4 Emergency telephone number:**

ChemTel Inc.
 (800)255-3924, +1 (813)248-0585




2 Hazards identification

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

Product as SOLD	Product at USE DILUTION
 GHS05 corrosion Eye Dam. 1 H318 Causes serious eye damage. Skin Corr./Irrit. 1C, H314 Causes severe skin burns and eye damage	No pictogram. Eye Irrit. 2B, H320 Causes eye irritation.
 GHS07 Acute Tox. (oral) 4, H302 Harmful if swallowed.	Not classified. Not classified.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

 C; Corrosive R34: Causes burns	 Xi; Irritant, Xn; Harmful R41-38: Risk of serious damage to eyes. Irritating to skin. R22: Harmful if swallowed	 Xi; Irritant R36: Causes eye irritation.
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- **Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.



The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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• Classification system:	
The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.	
• 2.2 Label elements	
• Labeling according to Regulation (EC) No 1272/2008	
Product as SOLD	Product at USE DILUTION
The product is classified and labeled according to the CLP regulation.	The product is classified and labeled according to the CLP regulation.
• Hazard pictograms	
  GHS05 GHS07	None
• Signal word Danger	Warning
• Hazard-determining components of labelling:	
Alkyl(C12-18) dimethyl(ethylbenzyl) ammonium chloride quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	Alkyl(C12-18) dimethyl(ethylbenzyl) ammonium chloride quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides
• Hazard statements	
H314 Causes severe skin burns and eye damage H318 Causes serious eye damage. H302 Harmful if swallowed.	H320 Causes eye irritation.
• Precautionary statements	
P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / eye protection. P260 Do not breathe dusts or mists. P264 Wash hands thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or a doctor. P302+P361+P353+ P363+P310: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center / doctor. Wash contaminated clothing before reuse. P304+P340+P310; IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P301+P330+P331+P312 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. P405 Store locked up P501 Dispose of contents/container in accordance with local regulations.	Keep out of reach of children. Wash hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

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3 Composition/information on ingredients**3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		
CAS: 57-13-6 EINECS: 200-315-5	urea substance with a Community workplace exposure limit	40-50%
CAS: 68956-79-6	Alkyl(C12-18) dimethyl(ethylbenzyl) ammonium chloride C R34; Xn R22; Xi R37 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	<20%
CAS: 68391-01-5 EINECS: 269-919-4	quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides C R34; Xn R22 Skin Corr. 1B, H314 Acute Tox. 4, H302	<20%
CAS: 25155-30-0	Sodium dodecylbenzenesulfonate Xi R36/37/38/41 Xn: R22 Eye Irrit. 2A, H319, Skin Irrit. 2, H315, Acute Tox. 4 (Oral), H302 STOT SE 3, H335	<5%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	Sodium Carbonate Xi R36 Eye Irrit. 2A, H319	<10%
CAS: 13236-36-4	Tetrasodium ethylenediaminetetraacetic acid Xi R36 Xn R22 Eye Irrit. 2A, H319; Acute Tox. 4, H302	<1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures**4.1 Description of first aid measures**

Product as SOLD	Product at USE DILUTION
• General information: No special measures required.	No special measures required.
• After inhalation: Supply fresh air; consult doctor in case of complaints.	Remove victim to fresh air and keep comfortable for breathing.
• After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.	If irritation occurs, rinse skin with water. If irritation persists get medical attention.
• After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
• After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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<ul style="list-style-type: none"> 4.2 Most important symptoms and effects, both acute and delayed Irritant to skin and mucous membranes. Strong irritant with the danger of severe eye injury. Gastric or intestinal disorders. Nausea Cramp Thirst 	No known effects.
<ul style="list-style-type: none"> Hazards Danger of gastric perforation. Danger of severe eye injury. 	No known effects.
<ul style="list-style-type: none"> 4.3 Indication of any immediate medical attention and special treatment needed 	
Medical supervision for at least 48 hours.	Get medical attention if symptoms occur.

5 Fire-fighting measures

- 5.1 Extinguishing media**
- Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:** None.
- 5.2 Special hazards arising from the substance or mixture**
 Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters**
- Protective equipment:**
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
- Additional information**
 Cool endangered receptacles with water spray.
 Eliminate all ignition sources if safe to do so.

6 Accidental release measures

<ul style="list-style-type: none"> 6.1 Personal precautions, protective equipment and emergency procedures 	
Product as SOLD	Product at USE DILUTION
Use respiratory protective device against the effects of dust. Wear protective equipment. Keep unprotected persons away. Avoid formation of dust	Use personal protective equipment as required.
<ul style="list-style-type: none"> 6.2 Environmental precautions: 	
No special measures required.	Avoid contact of large amounts of spilled material and run off with soil and surface waterways.
<ul style="list-style-type: none"> 6.3 Methods and material for containment and cleaning up: 	
Pick up mechanically. Dispose contaminated material as waste according to item 13.	Large Spills: Flush area with water. Prevent entry into waterways. Small Spills: Wipe up with absorbent material.
<ul style="list-style-type: none"> 6.4 Reference to other sections 	
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

Product as SOLD	Product at USE DILUTION
Prevent formation of dust. Use only in well ventilated areas.	No special measures required.

• Information about fire - and explosion protection:

No special measures required.	No special measures required.
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• 7.2 Conditions for safe storage, including any incompatibilities**• Storage:****• Requirements to be met by storerooms and receptacles:**

Keep out of reach of children. Protect from humidity and water. Avoid storage near extreme heat, ignition sources or open flame.	Keep out of reach of children.
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• Information about storage in one common storage facility:

Store away from foodstuffs. Store away from oxidizing agents. Store away from water. Do not store together with acids.	No storage precautions necessary.
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• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles. Protect from freezing.	No storage precautions necessary.
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• 7.3 Specific end use(s) No further relevant information available.**8 Exposure controls/personal protection****• Additional information about design of technical facilities:** No further data; see item 7.

Product as SOLD	Product at USE DILUTION
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• 8.1 Control parameters**• Ingredients with limit values that require monitoring at the workplace:**

57-13-6 urea	
WEEL (USA)	Long-term value: 10 mg/m ³

• DNELs No further relevant information available.

• PNECs No further relevant information available.

• **Additional information:** The lists valid during the making were used as basis.**• 8.2 Exposure controls****• Personal protective equipment:****• General protective and hygienic measures:**



The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	Not required under normal conditions of use.
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Product as SOLD	Product at USE DILUTION
• Respiratory protection:	
Not required under normal conditions of use. For spills, respiratory protection may be advisable.	A respirator is not required under normal and intended conditions of use.
• Protection of hands:	
 Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.	No protective equipment is needed under normal conditions.
• Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	No protective equipment is needed under normal conditions.
• Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	No protective equipment is needed under normal conditions.
• Eye protection:	
Contact lenses should not be worn.  Safety glasses	No protective equipment is needed under normal conditions.
• Body protection:	
Wear suitable protective clothing.	No protective equipment is needed under normal conditions.
• Limitation and supervision of exposure into the environment	
No further relevant information available.	No further relevant information available.
• Risk management measures	
See Section 7 for additional information. No further relevant information available.	See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical and chemical properties		
• General Information		
• Appearance:		
Form:	Granular	Liquid
Color:	White	colorless
• Odor:	Cherry scented	Faint cherry scent
• Odor threshold:	Not determined.	Not determined.

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	Product as SOLD	Product at USE DILUTION
• pH-value at 20 °C:	Not applicable.	9.0 ± 0.5 at label use-dilution.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	Not applicable. 100° C / 212° F
• Flash point:	Not applicable.	Not determined.
• Flammability (solid, gaseous):	Not determined.	Not applicable.
• Ignition temperature:	Not determined.	Not applicable.
• Decomposition temperature:	Not determined.	Not determined.
• Self-igniting:	Product is not self-igniting.	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.	Product does not present an explosion hazard.
• Explosion limits: Lower: Upper:	Not determined. Not determined.	Not determined. Not determined.
• Vapor pressure at 20 °C:	Not applicable.	Not determined.
• Density at 20 °C: • Relative density • Vapor density • Evaporation rate	Not determined. Not determined. Not applicable. Not applicable.	Not determined. Not determined. Not applicable. Not applicable.
• Solubility in / Miscibility with water:	Soluble.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	Not determined. Not determined.
• 9.2 Other information	No further relevant information available.	No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.
Exothermic reaction with acids.
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- **10.4 Conditions to avoid** Store away from oxidizing agents.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)
Sulphur oxides (SO_x)

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11 Toxicological information

• 11.1 Information on toxicological effects

Product as SOLD	Product at USE DILUTION									
<p>• Acute toxicity:</p> <table border="1"> <tr> <td colspan="3">• LD/LC50 values relevant for classification:</td> </tr> <tr> <td colspan="3">68391-01-5 quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides</td> </tr> <tr> <td style="text-align: center;">Oral</td> <td style="text-align: center;">LD50</td> <td style="text-align: center;">650 mg/kg (rat)</td> </tr> </table>	• LD/LC50 values relevant for classification:			68391-01-5 quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides			Oral	LD50	650 mg/kg (rat)	Non-toxic at use-dilution.
• LD/LC50 values relevant for classification:										
68391-01-5 quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides										
Oral	LD50	650 mg/kg (rat)								
• Primary irritant effect:										
<p>• on the skin: Slight irritant effect on skin and mucous membranes.</p> <p>• on the eye: Strong caustic effect.</p> <p>• Sensitization: No sensitizing effects known.</p>	<p>No adverse effects due to skin contact are expected.</p> <p>Direct contact with eyes may cause temporary irritation.</p> <p>No sensitizing effects known.</p>									
• Additional toxicological information:										
<p>The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:</p> <p>Corrosive</p> <p>Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.</p>	<p>Not classified</p> <p>No known significant effects or critical hazards.</p>									

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Harmful to fish
After neutralization a reduction of the harming action may be recognized.
- **Additional ecological information:**
- **General notes:**
Water Hazard Class (Self-classification) in the concentrate.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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13 Disposal considerations

• 13.1 Waste treatment methods

Product as SOLD	Product at USE DILUTION
• Recommendation Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.	
• Uncleaned packaging: • Recommendation: Disposal must be made according to official regulations. • Recommended cleansing agents: Water, if necessary together with cleansing agents.	
	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14 Transport information

Product as SOLD	
• 14.1 UN-Number • DOT, ADR, ADN, IMDG, IATA	UN1759
• 14.2 UN proper shipping name • DOT, ADR, ADN, IMDG, IATA : CF1705AE BP33 only:	UN1759, CORROSIVE SOLID, N.O.S. (quaternary ammonia compounds), 8, III, Ltd. Qty.
CF1700ST BP33 only :	UN1759, CORROSIVE SOLID, N.O.S. (quaternary ammonia compounds), 8, III.
• 14.3 Transport hazard class(es) • DOT, ADR, ADN, IMDG, IATA • Class	8
• 14.4 Packing group • DOT, ADR, IMDG, IATA	III
• 14.5 Environmental hazards: • Marine pollutant:	No
• 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Product at USE DILUTION Not intended for transport.	

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Product as SOLD	Product at USE DILUTION
• Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	None of the ingredients is listed.

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Product as SOLD	Product at USE DILUTION
• TSCA (Toxic Substances Control Act):	
All ingredients are listed.	All ingredients are listed.
• Proposition 65 (California):	
• Chemicals known to cause cancer:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	None of the ingredients is listed.
• Carcinogenic Categories	
• EPA (Environmental Protection Agency)	
None of the ingredients is listed.	None of the ingredients is listed.
• IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	None of the ingredients is listed.
• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	None of the ingredients is listed.
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	None of the ingredients is listed.
• OSHA-Ca (Occupational Safety & Health Administration)	
All ingredients are listed.	All ingredients are listed.
• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.



 R22 Harmful if swallowed.
 R34 Causes burns.
 R36 Irritating to eyes.
 R36/38 Irritating to eyes and skin.
 R37 Irritating to respiratory system.
 R41 Risk of serious damage to eyes.

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Product as SOLD	Product at USE DILUTION																
• Hazardous Material Information System (U.S.A.)																	
<table border="1"> <tr><td>Health</td><td style="text-align: center;">2</td></tr> <tr><td>Flammability</td><td style="text-align: center;">0</td></tr> <tr><td>Physical hazards</td><td style="text-align: center;">0</td></tr> <tr><td> </td><td> </td></tr> </table> <p>4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant</p>	Health	2	Flammability	0	Physical hazards	0			<table border="1"> <tr><td>Health</td><td style="text-align: center;">1</td></tr> <tr><td>Flammability</td><td style="text-align: center;">0</td></tr> <tr><td>Physical hazards</td><td style="text-align: center;">0</td></tr> <tr><td> </td><td> </td></tr> </table> <p>4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant</p>	Health	1	Flammability	0	Physical hazards	0		
Health	2																
Flammability	0																
Physical hazards	0																
Health	1																
Flammability	0																
Physical hazards	0																
• NFPA ratings (scale 0 - 4)																	
 <p>Health = 2 Fire = 0 Reactivity = 0</p>	 <p>Health = 1 Fire = 0 Reactivity = 0</p>																

MSDS File Name: BP33 CLEAN FLUSH POWDER SDS

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

• Sources

SDS Prepared by:

ChemTel Inc.

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Website: www.chemtelinc.com

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