

FORMULA 32

MATERIAL SAFETY DATA SHEET

Garratt-Callahan Company

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SECTION #1 - IDENTIFICATION

Product Name:

FORMULA 32

Product Number:

0297010

Product Use:

Micro-biocide for Cooling water

EPA Reg. Number:

8540-8

Chemical Family: Quaternary Ammonium Salt

SECTION #2 - HAZARDOUS COMPONENTS*

EXPOSURE LIMITS

COMPONENT

CAS NUMBER

PERCENT

ACGIH TLV

OSHA PEL

Poly[oxyethylene(dimethyl iminio)ethylene(dimethylimino) ethylene dichloride

31075-24-8

18%

None established

None established

Not applicable

*NOTE: OSHA requires only that hazardous components be listed in this section.

SECTION #3 - PHYSICAL DATA

APPEARANCE:

Clear Light Brown liquid

% VOLATILES BY VOL:

82

BOILING POINT:

212 F

SOLUBILITY IN WATER: Complete

VAPOR DENSITY:

Not applicable

SPECIFIC GRAVITY:

1.0-1.1

VAPOR PRESSURE:

Not applicable

EVAPORATION RATE (where butyl acetate = 1): <1

pH:

5.0-8.0

ODOR:

Aromatic

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SECTION #7 - SPILL, LEAK & DISPOSAL PROCEDURES

SPILL/LEAK: Wear protective clothing. Small spills of one gallon or less may be flushed to drain with a large amount of water. For

larger spills, contain with absorbent material. Place in suitable containers for disposal.

DISPOSAL:

Dispose of in waste management facility or in compliance with federal, state and local regulations. If spill is not

contaminated you may be able to dispose of material where normally used.

SECTION #8 - SPECIAL PROTECTIVE MEASURES

VENTILATION:

General ventilation is sufficient.

RESPIRATORY PROTECTION: None needed under normal use conditions.

SKIN PROTECTION: Rubber gloves

EYE PROTECTION:

Chemical splash goggles

OTHER:

Not required

WORK/HYGIENIC

Have eyewash station in work area. Remove contaminated clothing. Wash contaminated clothing before reuse.

PRACTICES:

If liquid is adsorbed into leather shoes or gloves, discard.

SECTION #9 - STORAGE & HANDLING INFORMATION

HANDLING: Avoid contact with eyes and skin.

STORAGE:

Keep container covered and sealed when not in use. Store in a cool, dry area. Do not add water or any other material

to product container or otherwise contaminate it.

SECTION #10 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not regulated

DOT HAZARD CLASS:

Not applicable

UN/NA#:

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Not applicable

DOT LABEL REQUIRED:

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SECTION #11 - REGULATORY INFORMATION

The following regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA TITLE III Section 311/312 Hazard Category: Acute Hazard

SARA TITLE III Section 313 Toxic Chemicals List (40CFR372)

This product contains a chemical which is listed in Section 313 at or above minimum concentrations. The following listed chemicals are present:

None

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (40CFR302.4)

This material is regulated under CERCLA and SARA Title III Section 304. This material is or contains chemical(s) listed in 40CFR Table 302.4. The Reportable Quantity(s) (RQ) are listed below.

None

California Proposition 65- The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer or reproductive toxicity.

No components of the product are listed.

Toxic Substances Control Act (TSCA) Inventory Status:

All components are listed on the TSCA Inventory.

HMIS Rating:

HEALTH: 1

FIRE: 0

REACTIVITY: 0

NFPA Rating:

HEALTH: 1

FIRE: 0

REACTIVITY: 0

SECTION #12 - TOXICOLOGICAL INFORMATION

Toxicity

Oral:

LD50/ > 5.0 g/kg

Dermal:

LD50/ > 2 g/kg

Inhalation:

LD50/ > 26.4 mg/1

Chronic Effects:

Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

Ecological Data

Fish:

LC50/ Fathead minnow/ 96 Hours: 0.51 mg/L

Daphnia:

LC50/Daphnia magna, 48 Hours: 1.87 ppm

Algae:

No data available

Bioaccumulation: Material is not expected to bio-accumulate.

Persistance /

Material is biodegradable

Degradability:

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