

## MATERIAL SAFETY DATA SHEET

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MSDS # 114440020

## SHINE-UP (LEMON - AEROSOL)

Date Issued: 17Apr1997

Supersedes: 27Apr1994

## US MANUFACTURER:

S.C. Johnson Commercial Markets, Inc.  
S.C. Johnson Professional  
8310 16th Street  
Sturtevant, Wisconsin 53177-0902  
Phone: (800) 725-6737  
Emergency Phone: (800) 851-7145

## CANADIAN MANUFACTURER:

S.C. Johnson Professional, Inc.  
Phone: (519) 756-7900  
1 Webster Street, Suite 100  
Brantford, Ontario N3T 5R1  
Transportation Emergency:  
CANUTEC (collect) (613) 996-6666  
Emergency Phone: (800) 851-7145

| HAZARD RATING   | HMIS | HAZARD       | NFPA |
|-----------------|------|--------------|------|
| 4-Very High     | 0    | Health       | 0    |
| 3-High          | 4    | Flammability | 4    |
| 2-Moderate      | 0    | Reactivity   | 0    |
| 1-Slight        |      | Special      |      |
| 0-Insignificant |      |              |      |

## DISTRIBUTED IN CANADA BY:

S.C. Johnson Professional, Inc.  
Phone: (519) 758-6611  
1 Webster Street, Suite 100  
Brantford, Ontario N3T 5R1

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... SHINE-UP (LEMON - AEROSOL)  
REASON FOR CHANGE..... New format.  
PRODUCT USE..... Furniture care

## SECTION 2 - INGREDIENT INFORMATION

| INGREDIENT                                                  | WEIGHT% | EXPOSURE LIMIT/TOXICITY                                                               |
|-------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|
| Silicone (CAS# 63148-62-9).....                             | 1-3     | NOT ESTABLISHED LD50: >10,000 mg/kg<br>(oral-rat) LC50: >535 mg/l<br>(inhalation-rat) |
| [PA NJ MA] Butane (CAS# 106-97-8).....                      | 1-5     | 800 ppm ACGIH/OSHA TWA                                                                |
| [PA NJ MA] Propane (CAS# 74-98-6).....                      | 1-5     | 1000 ppm OSHA PEL                                                                     |
| [PA NJ MA] Isobutane (CAS# 75-28-5).....                    | 1-5     | NOT ESTABLISHED                                                                       |
| Isoparaffinic Hydrocarbon Solvent.....<br>(CAS# 64742-48-9) | 10-20   | 300 ppm-SUPPLIER RECOMMENDED LD50:<br>6,320 mg/kg (oral-rat)                          |
| Water (CAS# 7732-18-5).....                                 | 70-80   | NOT ESTABLISHED                                                                       |

## SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Eye contact.  
EFFECTS OF ACUTE EXPOSURE:  
EYE..... May cause: Mild eye irritation.  
SKIN..... None known.  
INHALATION..... None known.  
INGESTION..... None known.  
MEDICAL CONDITIONS..... None known.  
GENERALLY RECOGNIZED  
AS BEING AGGRAVATED  
BY EXPOSURE

## SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Flush immediately with plenty of water for at least 15 to 20  
minutes. If irritation persists, get medical attention.  
SKIN CONTACT..... Wash contaminated area with water and soap.

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## ----- SECTION 4 - FIRST AID MEASURES (continued) -----

INHALATION..... Remove to fresh air.  
INGESTION..... Immediately drink 1-2 glasses of water or milk. Seek immediate medical attention.

## ----- SECTION 5 - FIRE AND EXPLOSION INFORMATION -----

FLASH POINT..... < 20°F (< -7°C) (propellant)  
FLAMMABLE LIMITS..... Not applicable.  
AUTOIGNITION..... Not applicable.  
TEMPERATURE  
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.  
SPECIAL FIREFIGHTING... Normal fire fighting procedure may be used. Fight fire from  
PROCEDURES maximum distance or protected area. Cool and use caution when  
approaching or handling fire-exposed containers.  
UNUSUAL FIRE AND..... No special hazards known.  
EXPLOSION HAZARDS

## ----- SECTION 6 - PREVENTIVE RELEASE MEASURES -----

STEPS TO BE TAKEN IN... Eliminate all ignition sources. Absorb with oil-dri or similar  
CASE MATERIAL IS inert material. Sweep or scrape up and containerize. Rinse  
RELEASED OR SPILLED affected area thoroughly with water.

## ----- SECTION 7 - HANDLING AND STORAGE -----

PRECAUTIONARY..... CAUTION: FLAMMABLE: Avoid prolonged or repeated breathing of  
INFORMATION vapours. Eye irritant. Do not use near open fire, flames or heat.  
Do not puncture or incinerate. Do not store at temperatures above  
120 °F (50 °C). Keep away from heat. Do not spray or use on  
floors. Keep out of reach of children.  
OTHER HANDLING AND.... Store in a cool, dry place with adequate ventilation. Keep from  
STORAGE CONDITIONS freezing. Do not pressurize, cut, heat, weld or expose container  
to flame; explosion could occur.

## ----- SECTION 8 - SPECIAL PROTECTION INFORMATION -----

RESPIRATORY PROTECTION. No special requirements under normal use conditions.  
VENTILATION..... General room ventilation adequate.  
PROTECTIVE GLOVES..... No special requirements under normal use conditions.  
EYE PROTECTION..... No special requirements under normal use conditions.  
OTHER PROTECTIVE..... No special requirements.  
MEASURES

## ----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

COLOR..... Off-white  
PRODUCT STATE..... Dispensed as a spray mist.  
ODOR..... Lemon  
pH..... Not applicable.  
ODOR THRESHOLD..... Not available  
SOLUBILITY IN WATER... Moderate  
SPECIFIC GRAVITY..... 0.876  
(H2O=1)  
VAPOR DENSITY (AIR=1).. Not available.

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## ----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued) -----

EVAPORATION RATE (BUTYL ACETATE=1) Not available.  
VAPOR PRESSURE (mm HG) Not available.  
BOILING POINT..... Not applicable.  
FREEZING POINT..... Not applicable.  
COEFFICIENT OF..... Not available.  
WATER/OIL  
PERCENT VOLATILE BY.... Not available.  
VOLUME (%)  
VOLATILE ORGANIC..... Hydrocarbon propellant Isoparaffinic Hydrocarbon  
COMPOUND (VOC)  
THEORETICAL VOC..... 1.78  
(LB/GAL)

## ----- SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY..... Stable  
STABILITY - CONDITIONS TO AVOID No special requirements.  
INCOMPATIBILITY..... None known.  
HAZARDOUS DECOMPOSITION PRODUCTS No special requirements.  
HAZARDOUS..... Will not occur.  
POLYMERIZATION  
HAZARDOUS..... None known.  
POLYMERIZATION - CONDITIONS TO AVOID

## ----- SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3) -----

LD50 (ACUTE ORAL TOX).. Estimated to be greater than 5000 mg/kg (rats).  
LD50 (ACUTE DERMAL TOX) Not available.  
EFFECTS OF CHRONIC..... None known.  
EXPOSURE  
SENSITIZATION..... None known.  
CARCINOGENICITY..... None known.  
REPRODUCTIVE TOXICITY.. None known.  
TERATOGENICITY..... None known.  
MUTAGENICITY..... None known.

## ----- SECTION 12 - ECOLOGICAL INFORMATION -----

ENVIRONMENTAL DATA..... Not available.

## ----- SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL..... If possible, recycle empty aerosol can to nearest steel recycling  
INFORMATION center. Use up package or give to someone who can.

## ----- SECTION 14 - TRANSPORTATION INFORMATION -----

US DOT INFORMATION..... Aerosols, 2.1, UN 1950, Ltd. Qty.

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### ----- SECTION 14 - TRANSPORTATION INFORMATION (continued) -----

CANADIAN SHIPPING NAME. AEROSOLS, Limited Quantity.  
TDG CLASSIFICATION..... 2.2  
PIN/NIP..... UN 1950  
PACKING GROUP..... Not applicable.  
EXEMPTION NAME..... Limited Quantity

### ----- SECTION 15 - REGULATORY INFORMATION -----

WHMIS CLASSIFICATION... A; B,5;

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65. These ingredients from Section 2 are subject to the following reporting requirements:

- PA - The Pennsylvania Hazardous Substance List
- NJ - The New Jersey Right to Know Hazardous Substance List
- MA - The Massachusetts Hazardous Substance List

### ----- SECTION 16 - OTHER INFORMATION -----

ADDITIONAL INFORMATION. NFPA 30B Level 1 Aerosol.  
EPA REGISTRATION #..... Not applicable.

### ----- PREPARATION INFORMATION -----

PREPARED BY..... Manufacturer's Technical Support Department. Refer to page 1  
(Manufacturer) for contact information.

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

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CLEANTRONICS

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**Material Safety Data Sheet**

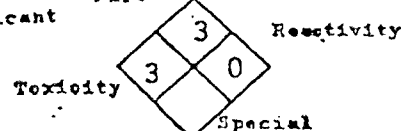
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**HMIS Symbol:**

|              |   |
|--------------|---|
| Health       | 3 |
| Flammability | 3 |
| Reactivity   | 0 |

**NFPA Symbol:**

|                             |      |
|-----------------------------|------|
| HMIS                        | NFPA |
| Minimal - 0 - Insignificant |      |
| Slight - 1 - Slight         |      |
| Moderate - 2 - Moderate     |      |
| Serious - 3 - High          |      |
| Severe - 4 - Extreme        |      |

**Fire**

Identity (As Used on Label and Use) # 2913  
2wo Oil Soluble Spotter

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**SECTION I**

|                                                     |                                                          |                                  |                                 |
|-----------------------------------------------------|----------------------------------------------------------|----------------------------------|---------------------------------|
| Manufacturer's Name                                 | Cleantronics Inc.                                        | Emergency Telephone Number       | 1-800-255-3924 CHEM TEL, INC.   |
| Address (Number, Street, City, State, and ZIP Code) | 19 Washington Rd.<br>Box 384<br>Princeton Jct., NJ 08550 | Telephone Number for Information | 1-609-799-3312 fax 609-799-8964 |
|                                                     |                                                          | Date Prepared                    | 1-28-98                         |
|                                                     |                                                          | Signature of Preparer (Optional) |                                 |

**SECTION II - Hazardous Ingredients/Identity Information**

| Hazardous Components (Specific Chemical Identity, Common Name(s)) | CAS No.    | OSHA PEL | ACGIH-TLV  | Other Limits Recommended | %(Opt.) |
|-------------------------------------------------------------------|------------|----------|------------|--------------------------|---------|
| Isopropanol                                                       | 67-63-0    | 400 ppm  | 400 ppm    | STEL 500 ppm             |         |
| Isobutane                                                         | 75-28-5    | 800 ppm  | 800 ppm    |                          |         |
| Propane                                                           | 74-98-6    | 1000 ppm | Asphyxiant |                          |         |
| (2-Methoxy methylethoxy) - propanol                               | 34590-94-8 | 100 ppm  | 100 ppm    | STEL 150 ppm             |         |

This product is not known to contain any compound listed and in quantities requiring reporting under SARA Title III Section 303.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

**SECTION III Physical/Chemical Characteristics**

|                          |                      |                                         |                |
|--------------------------|----------------------|-----------------------------------------|----------------|
| Boiling Point            | 180° F               | Specific Gravity (H <sub>2</sub> O = 1) | 0.873          |
| Concentrate - Initial    |                      | Concentrate                             |                |
| Pressure (psig. @ 70° F) | 40 ± 5               | Melting Point                           | No Data        |
| Vapor Density (AIR = 1)  | Greater than one (1) | Evaporation Rate (Butyl Acetate = 1)    | No Data        |
| Solubility in Water      | Complete             | pH                                      | Not Applicable |

Appearance and Odor -  
Clear colorless liquid with a citrus scent in an aerosol can.

**SECTION IV - Fire and Explosion Hazard Data**

|                                         |                  |         |         |
|-----------------------------------------|------------------|---------|---------|
| USA Flame Projection Test (ASTM D-3065) | Flammable Limits | LEL     | UEL     |
| > 8", no flashback; Flammable           | No Data          | No Data | No Data |

**Extinguishing Media -**

Carbon dioxide, dry chemical, halon, polar or alcohol foam or water spray. Water may be ineffective.

Special Fire Fighting Procedures - Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

**Unusual Fire and Explosion Hazards -**

Aerosol container (pressurized) may burst if heated over 120° F. Extremely flammable contents.

November 11, 1996

## SECTION VI - Health Hazard Data

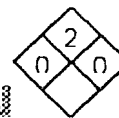
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**AMERADA HESS CORPORATION**NFPA 704  
see Section 16**MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908****1. CHEMICAL PRODUCT and COMPANY INFORMATION (rev. Feb-98)**

**Amerada Hess Corporation**  
**1 Hess Plaza**  
**Woodbridge, NJ 07095-0961**

**EMERGENCY TELEPHONE NUMBER (24 hrs):** **CHEMTREC (800) 424-9300**  
**COMPANY CONTACT (business hours):** **Corporate Safety (732) 750-6000**

**SYNONYMS:**

Tax-exempt Diesel Fuel

**SEE SECTION 16 FOR ABBREVIATIONS AND ACRONYMS.****2. COMPOSITION and INFORMATION ON INGREDIENTS (rev. Sep-98)**

| <u>INGREDIENT NAME</u>                | <u>EXPOSURE LIMITS</u>                                                                                  | <u>CONCENTRATION<br/>PERCENT BY WEIGHT</u> |
|---------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Diesel Fuel<br>CAS NUMBER: 68476-34-6 | OSHA PEL-TWA: 5 mg/m, as mineral oil mist<br>ACGIH TLV-TWA: 1997 NOIC- 100 mg/m <sup>3</sup> , skin, A3 | 100                                        |
| Naphthalene<br>CAS NUMBER: 91-20-3    | OSHA PEL: 10 ppm<br>ACGIH TLV-TWA/STEL: 10 / 15 ppm, A4                                                 | Typically < 0.01                           |

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher, a multifunctional additive, and red dye.

**3. HAZARDS IDENTIFICATION (rev. Feb-98)****EMERGENCY OVERVIEW****CAUTION!**

**OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT - EFFECTS CENTRAL  
 NERVOUS SYSTEM - HARMFUL OR FATAL IF SWALLOWED**

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash). Long-term, repeated exposure may cause skin cancer.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

**EYES**

Contact with liquid or vapor may cause mild irritation.

**SKIN**

May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

**INGESTION**

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

**INHALATION**

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

**AMERAD HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908**

**WARNING:** the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

**CHRONIC EFFECTS and CARCINOGENICITY**

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

**4. FIRST AID MEASURES (rev. Feb-98)****EYES**

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

**SKIN**

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

**INGESTION**

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

**INHALATION**

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

**5. FIRE FIGHTING MEASURES (rev. Oct-96)****FLAMMABLE PROPERTIES:**

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| FLASH POINT:                  | > 125 °F (> 52 °C) minimum PMCC                                     |
| AUTOIGNITION POINT:           | 494 °F (257 °C)                                                     |
| OSHA/NFPA FLAMMABILITY CLASS: | 2 (COMBUSTIBLE) (see Section 14 for transportation classification). |
| LOWER EXPLOSIVE LIMIT (%):    | 0.6                                                                 |
| UPPER EXPLOSIVE LIMIT (%):    | 7.5                                                                 |

**FIRE AND EXPLOSION HAZARDS**

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

**EXTINGUISHING MEDIA**

**SMALL FIRES:** Any extinguisher suitable for Class B fires, dry chemical, CO<sub>2</sub>, water spray, fire fighting foam, or Halon.

**LARGE FIRES:** Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

**AMERAD HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908****FIRE FIGHTING INSTRUCTIONS**

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

**6. ACCIDENTAL RELEASE MEASURES (rev. Feb-98)**

**ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.**

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

**7. HANDLING and STORAGE (rev. Feb-98)****HANDLING PRECAUTIONS**

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

**STORAGE PRECAUTIONS**

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

**WORK/HYGIENIC PRACTICES**

**AMERADA HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908**

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and laundry before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

**8. EXPOSURE CONTROLS and PERSONAL PROTECTION (rev. Feb-98)****ENGINEERING CONTROLS**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

**EYE/FACE PROTECTION**

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

**SKIN PROTECTION**

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

**RESPIRATORY PROTECTION**

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

**9. PHYSICAL and CHEMICAL PROPERTIES (rev. Jan-94)****APPEARANCE**

Red or reddish-colored (dyed) liquid

**ODOR**

Mild, petroleum distillate odor

**BASIC PHYSICAL PROPERTIES**

|                                          |                               |
|------------------------------------------|-------------------------------|
| BOILING RANGE:                           | 320 to 690 °F (160 to 366 °C) |
| VAPOR PRESSURE:                          | 0.009 psia @ 70 °F (21 °C)    |
| VAPOR DENSITY (air = 1):                 | > 1.0                         |
| SPECIFIC GRAVITY (H <sub>2</sub> O = 1): | 0.83 to 0.86 @ 60 °F (16 °C)  |
| PERCENT VOLATILES:                       | 100 %                         |
| EVAPORATION RATE:                        | Slow; varies with conditions  |
| SOLUBILITY (H <sub>2</sub> O):           | Negligible                    |

**AMERAD HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908****10. STABILITY and REACTIVITY (rev. Jan-94)****STABILITY:** Stable**CONDITIONS TO AVOID (STABILITY)**

Material is stable under normal conditions. Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

**INCOMPATIBLE MATERIALS**

Keep away from strong oxidizers, ignition sources and heat; Viton ® ; Fluorel ®

**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

**HAZARDOUS POLYMERIZATION:** Will not occur

**11. TOXICOLOGICAL PROPERTIES (rev. Feb-98)****ACUTE TOXICITY**

Acute dermal LD50 (rabbits): > 5 ml/kg

Acute oral LD50 (rats): 9 ml/kg

Primary dermal irritation: extremely irritating (rabbits)

Draize eye irritation: non-irritating (rabbits)

Guinea pig sensitization: negative

**CHRONIC EFFECTS AND CARCINOGENICITY**

Carcinogenic: OSHA: NO

IARC: YES - 2BNT: NO

ACGIH: 1997 NOIC: A3

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

**MUTAGENICITY (genetic effects)**

This material has been positive in a mutagenicity study.

**12. ECOLOGICAL INFORMATION (rev. Feb-98)**

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

**13. DISPOSAL CONSIDERATIONS (rev. Feb-98)**

Consult federal, state and local waste regulations to determine appropriate disposal options.

**14. TRANSPORTATION INFORMATION (rev. Feb-98)**

**PROPER SHIPPING NAME:** DIESEL FUEL

**HAZARD CLASS and PACKING GROUP:** 3, PG III

**DOT IDENTIFICATION NUMBER:** NA 1993

**DOT SHIPPING LABEL:** NONE

**15. REGULATORY INFORMATION (rev. Feb-98)****U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION**

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

02/07/00 16:21:11

7327507175-&gt;

Page 008

**AMERAD HESS CORPORATION****MATERIAL SAFETY DATA SHEET****Dyed Premium Diesel Fuel****MSDS No. 9908****CLEAN WATER ACT (OIL SPILLS)**

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow-up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

**CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)**

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

**SARA SECTION 311/312 - HAZARD CLASSES**

| <u>ACUTE HEALTH</u> | <u>CHRONIC HEALTH</u> | <u>FIRE</u> | <u>SUDDEN RELEASE OF PRESSURE</u> | <u>REACTIVE</u> |
|---------------------|-----------------------|-------------|-----------------------------------|-----------------|
| X                   | X                     | X           | -                                 | -               |

**SARA SECTION 313 - SUPPLIER NOTIFICATION**

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

**CANADIAN REGULATORY INFORMATION (WHMIS)**

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)

**16. OTHER INFORMATION (rev. Feb-98)**

|                                   |             |     |            |
|-----------------------------------|-------------|-----|------------|
| <b><u>NEPA® HAZARD RATING</u></b> | HEALTH:     | 0   | Negligible |
|                                   | FIRE:       | 2   | Moderate   |
|                                   | REACTIVITY: | 0   | Negligible |
| <b><u>HMIS® HAZARD RATING</u></b> | HEALTH:     | 1 * | Slight     |
|                                   | FIRE:       | 2   | Moderate   |
|                                   | REACTIVITY: | 0   | Negligible |
|                                   |             |     | * CHRONIC  |

**SUPERSEDES MSDS DATED:** 02/18/98

**ABBREVIATIONS:**

AP = Approximately      < = Less than      > = Greater than  
N/A = Not Applicable      N/D = Not Determined      ppm = parts per million

**ACRONYMS:**

|        |                                                                     |       |                                                          |
|--------|---------------------------------------------------------------------|-------|----------------------------------------------------------|
| ACGIH  | American Conference of Governmental Industrial Hygienists           | IARC  | International Agency For Research On Cancer              |
| AIHA   | American Industrial Hygiene Association                             | MSHA  | Mine Safety and Health Administration                    |
| ANSI   | American National Standards Institute<br>(212) 642-4900             | NFPA  | National Fire Protection Association<br>(617)770-3000    |
| API    | American Petroleum Institute<br>(202) 682-8000                      | NIOSH | National Institute of Occupational Safety and Health     |
| CERCLA | Comprehensive Emergency Response, Compensation, and Liability Act   | NOIC  | Notice of Intended Change (proposed change to ACGIH TLV) |
| DOT    | U.S. Department of Transportation<br>[General info: (800) 467-4922] | NTP   | National Toxicology Program                              |
| EPA    | U.S. Environmental Protection Agency                                | OPA   | Oil Pollution Act of 1990                                |
| HMIS   | Hazardous Materials Information System                              | OSHA  | U.S. Occupational Safety & Health Administration         |
|        |                                                                     | PEL   | Permissible Exposure Limit (OSHA)                        |

# AMERAD HESS CORPORATION

## MATERIAL SAFETY DATA SHEET

**Dyed Premium Diesel Fuel**

**MSDS No. 9908**

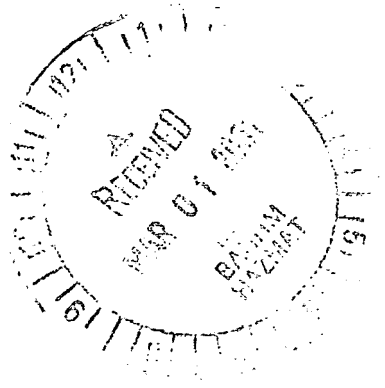
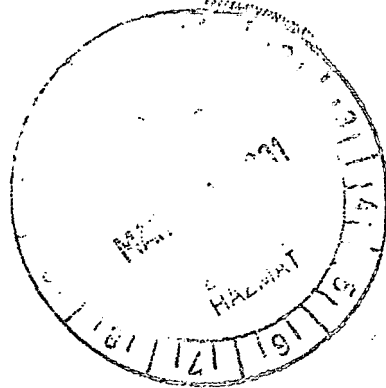
|      |                                                                   |       |                                                              |
|------|-------------------------------------------------------------------|-------|--------------------------------------------------------------|
| RCRA | Resource Conservation and Recovery Act                            | TLV   | Threshold Limit Value (ACGIH)                                |
| REL  | Recommended Exposure Limit (NIOSH)                                | TSCA  | Toxic Substances Control Act                                 |
| SARA | Superfund Amendments and<br>Reauthorization Act of 1986 Title III | TWA   | Time Weighted Average (8 hr.)                                |
| SCBA | Self-Contained Breathing Apparatus                                | WEEL  | Workplace Environmental Exposure Level<br>(AIHA)             |
| SPCC | Spill Prevention, Control, and<br>Countermeasures                 | WHMIS | Canadian Workplace Hazardous Materials<br>Information System |
| STEL | Short-Term Exposure Limit (generally 15<br>minutes)               |       |                                                              |

### DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

2



## M A T E R I A L   S A F E T Y   D A T A   S H E E T      Rev M2900.06B

For Coating, Resins, and Related Materials NPCA 1-84

MANUFACTURER'S NAME  
BENJAMIN MOORE & Co.  
51 CHESTNUT RIDGE RD.  
MONTVALE, NJ 07645

EMERGENCY TELEPHONE NO.  
800-424-9300 (CHEMTREC)

DATE OF PREPARATION  
05-FEB-99 (Sup. 15-DEC-99)

INFORMATION TELEPHONE  
201-573-9600

## =====

## SECTION I - PRODUCT ID

|                                 | HMIS CODE       | SARA TITLE 312 |
|---------------------------------|-----------------|----------------|
| PRODUCT CODE: M29               |                 | Acute: YES     |
| CLASS: WATER THINNED PAINT      | Health: 2*      | Chronic: YES   |
| NAME: D.T.M. ACRYLIC SEMI-GLOSS | Flammability: 0 | Fire: NO       |
| COLOR: ALL                      | Reactivity: 0   | Pressure: NO   |
|                                 | Personal Prot.: | React: NO      |

For a complete description of HMIS and an explanation of the PERSONAL PROT: code, see Section XX.

## =====

## SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT                   | MAX PCT | CAS NO.<br>TLV | PEL      | STEL     | CEIL  | MM Hg    | TEMP |
|------------------------------|---------|----------------|----------|----------|-------|----------|------|
| Diethylene Glycol            | 2.2     | 111773         |          |          |       |          |      |
| Monomethyl Ether (3)         |         | N/E            | N/E      | N/E      | N/E   | 0.1 @ 20 |      |
| Titanium Dioxide (f*)        | 17.4    | 13463677       | 10mg/m3  | N/E      | N/E   | N/A      |      |
| Zinc Phosphate (f*3)         | 2.5     | 7779900        | 10mg/m3  | N/E      | N/E   | N/A      |      |
| Ethylene Glycol (f3n)        | 3.4     | 107211         | 15mg/m3  | N/E      | N/E   | N/A      |      |
| Ethylene Glycol              | 4.2     | 1559359        | 50ppm    | N/E      | 50ppm | .08 @ 20 |      |
| Mono-2-Ethylhexyl Ether (f3) |         | N/E            | N/E      | N/E      | N/E   | N/E      |      |
| Dibutyl Phthalate (f3n)      | 1.7     | 84742          | 5mg/m3   | 5mg/m3   | N/E   | .01 @ 20 |      |
| Hydrous Alum Silicates       | 4.4     | 1332587        | 10mg/m3  | 10mg/m3  | N/E   | N/A      |      |
| (f*)                         |         | 10mg/m3        | 10mg/m3  | N/E      | N/E   | N/A      |      |
| Iron Oxide (f*n)             | 1.2     | 1309371        | 5mg/m3   | 10mg/m3  | N/E   | N/A      |      |
| Carbon Black (f*n)           | 2.2     | 1333864        | 3.5mg/m3 | 3.5mg/m3 | N/E   | N/A      |      |
| C.I. Yellow 11741 (f*)       | 4.9     | 6358312        | 10mg/m3  | 15mg/m3  | N/E   | N/A      |      |
| Pigment Blue (f*)            | 1.4     | 147148         | 1mg/m3   | 1mg/m3   | N/E   | N/A      |      |
| C.I. Pigment Green 7 (f*)    | 1.3     | 1328536        | 1mg/m3   | 1mg/m3   | N/E   | N/A      |      |
| C.I. Pigment Yellow 42       | 4.8     | 51274001       | 10mg/m3  | 10mg/m3  | 10ppm | N/A      |      |
| (f*)                         |         | 10mg/m3        | 10mg/m3  | 10ppm    | N/E   | N/A      |      |

f Federal Hazard List

\* Hazardous only as dust when product is sanded.

3 Sect. 313 of the Emergency Planning &amp; Community Right-To-Know Act of 1986 and of 40 CFR 37

n New Jersey Label Law hazardous chemical

This product may contain small amounts of materials known to the State of California to cause cancer and reproductive harm.

=====

SECTION III - PHYSICAL DATA

=====

BOILING RANGE: N/A VAPOR DENSITY: HEAVIER THAN AIR  
WEIGHT PER GAL: 8.8 - 10.1

EVAPORATION RATE: SLOWER THAN ETHER % VOLATILE VOLUME: 59.3 - 64.1

=====

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

=====

FLAMMABILITY CLASSIFICATION: NOT REGULATED FLASH PT.: >250 F PMCC  
LEL: Not Applicable

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may burst if exposed to extreme heat or fire. Toxic gases may form when product burns.

SPECIAL FIREFIGHTING PROCEDURES:

Cool exposed containers with water. Use self-contained breathing apparatus.

=====

SECTION V - HEALTH HAZARD DATA

=====

EFFECTS OF OVEREXPOSURE - ACUTE:

Inhalation - Harmful if inhaled. May affect the brain or nervous system, causing dizziness, headache or nausea.

Contact - Causes eye irritation. Contact - Causes skin irritation. Ingestion - Harmful if swallowed. Irritation of the digestive tract and nervous system depression.

EFFECTS OF OVEREXPOSURE - CHRONIC:

Inhalation - Irritating to respiratory tract.

IARC has classified Carbon Black as possibly carcinogenic for humans (2B).

NOTICE: Reports have associated permanent brain and nervous system damage with repeated, prolonged overexposure to solvents among persons engaged in the painting trade. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

None expected when used in accordance with Safe Handling and Use Information (Section VIII).

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation - Remove to fresh air. Get medical help for any breathing difficulty. Eye Contact - Flush thoroughly with water. Call physician.

Skin Contact - Wash with soap and water.

Ingestion - Drink 1 or 2 glasses of water to dilute. Do NOT induce vomiting. Call physician.

=====

SECTION VI - REACTIVITY DATA

=====

STABILITY: STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon dioxide and carbon monoxide.

CONDITIONS TO AVOID: Elevated temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): None reasonably foreseeable.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Flush with water. Absorb with sawdust or rags.

WASTE DISPOSAL METHOD: Conventional procedures in compliance with local, state and federal regulations. Do not incinerate sealed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Wear a properly fitted vapor/particulate approved by NIOSH/MSHA for use with paints (TC-23C) during application or sanding and until all vapors and spray mist are exhausted. In confined spaces or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear a positive-pressure, supplied air respirator (NIOSH/MSHA TC-19C)

VENTILATION: Adequate to maintain working atmosphere below T.L.V. and L.E.L. (See Sect. II for ingredient data and concentrations). Mechanical exhaust may be required in confined areas.

PROTECTIVE GLOVES: Solvent impermeable gloves are required

EYE PROTECTION: Splash goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin.

HYGIENIC PRACTICES: Remove and wash clothing before reuse. Wash hands before eating, smoking or using the washroom.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not throw or drop containers.

OTHER PRECAUTIONS: Avoid contact with eyes and prolonged contact with skin or breathing of spray mist or sanding dust. Close container after each use. Keep out of reach of children. Do not take internally.

SECTION XX

HMIS (Hazardous Materials Identification System) (R) NPCA

HMIS is a recognized workplace Hazard Communications System as required by OSHA (29 CFR 1910.1200). Information on establishing a compliant hazardous communication program using HMIS is available from:

American Labelmark Co., Inc., Labelmaster Division  
5724 N. Pulaski Rd., Chicago, IL 60646  
1-800-621-5808

The ratings assigned by Benjamin Moore & Co. are only suggested ratings; the contractor/ employer has ultimate responsibility for HMIS rating where this system is used.

PERSONAL PROTECTION: This code is left blank on Benjamin Moore & Co. MSDS's as it depends on application technique and the workplace ventilation. Please read Sections II through IX of this MSDS before deciding on appropriate protective equipment and beginning work. There are codes available for this

SDS for M29 D.T.M. Acrylic Semi-Gloss

<http://www.benjaminmoore.com/msds/MSDS/M29.htm>

section which can be obtained from Labelmaster.

This product contains at least one toxic chemical listed in Section 11 that is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To- Know Act of 1986 and 40 CR 372.

## M A T E R I A L   S A F E T Y   D A T A   S H E E T      Rev M9500.03B

For Coating, Resins, and Related Materials NPCA 1-84

MANUFACTURER'S NAME  
BENJAMIN MOORE & CO.  
51 CHESTNUT RIDGE RD.  
MONTVALE, NJ 07645

EMERGENCY TELEPHONE NO.  
800-424-9300 (CHEMTREC)

DATE OF PREPARATION  
05-SEP-00 (Sup. 15-DEC-97)

INFORMATION TELEPHONE  
201-573-9600

## =====

## SECTION I - PRODUCT ID

|                     | HMIS CODE       | SARA TITLE 312 |
|---------------------|-----------------|----------------|
| PRODUCT CODE: M95   |                 | Acute: YES     |
| CLASS: SOLVENT      | Health: 2*      | Chronic: YES   |
| NAME: EPOXY THINNER | Flammability: 3 | Fire: YES      |
| COLOR: ALL          | Reactivity: 0   | Pressure: NO   |
|                     | Personal Prot.: | React: NO      |

For a complete description of HMIS and an explanation of the PERSONAL PROT:  
code, see Section XX.

## =====

## SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT                      | PERCENT | CAS NO.<br>TLV    | PEL    | STEL   | CEIL | MM Hg | TEMP   |
|---------------------------------|---------|-------------------|--------|--------|------|-------|--------|
| Xylene (f3n)                    | 40.0    | 1330207<br>100ppm | 100ppm | 150ppm | N/E  | 21    | @ 38 C |
| Ethyl Benzene (f3n)             | 10.0    | 100414<br>100ppm  | 100ppm | 125ppm | N/E  | 10    | @ 20 C |
| Methyl Isobutyl Ketone<br>(f3n) | 50.0    | 108101<br>50ppm   | 50ppm  | 75ppm  | N/E  | 15    | @ 20 C |

f Federal Hazard List

3 Sect. 313 of the Emergency Planning & Community Right-To-Know Act of 1986  
and of 40 CFR 37

n New Jersey Label Law hazardous chemical

This product may contain small amounts of materials known to the  
State of California to cause cancer and reproductive harm.

## =====

## SECTION III - PHYSICAL DATA

BOILING RANGE: 237- 284 F    VAPOR DENSITY:    HEAVIER THAN AIR  
WEIGHT PER GALLON: 7.0 to 7.0

EVAPORATION RATE:    SLOWER THAN ETHER    % VOLATILE VOLUME: 0.0 to 0.0

## =====

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

D.O.T. FLAMMABILITY CLASSIFICATION: FLAMMABLE      FLASH PT.:    60 F PMCC

LEL:    1.0%

EXTINGUISHING MEDIA:    FOAM      CO2      DRY CHEMICAL      WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers may burst if exposed to extreme heat or fire.  
Toxic gases may form when product burns.

SPECIAL FIREFIGHTING PROCEDURES:

Do not use water stream on burning liquid.

Cool exposed containers with water. Use self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - ACUTE:

Inhalation - Harmful if inhaled. May affect the brain or nervous system, causing dizziness, headache or nausea.

Contact - Causes eye irritation.

Contact - Causes skin irritation.

Ingestion - Irritation of the digestive tract and nervous system depression (drowsiness, dizziness, loss of coordination and fatigue). Aspiration Hazard - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

EFFECTS OF OVEREXPOSURE - CHRONIC:

NOTICE: Reports have associated permanent brain and nervous system damage with repeated, prolonged overexposure to solvents among persons engaged in the painting trade. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

IARC has classified Ethyl Benzene as possibly carcinogenic to humans (2B).

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

None expected when used in accordance with Safe Handling and Use Information (Section VIII).

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation - Remove from hazard area, maintain breathing, call physician.

Skin Contact - Remove with soap and water.

Eye Contact - Flush immediately with large amounts of water. Call physician.

Ingestion - Drink 1 or 2 glasses of water to dilute. Do NOT induce vomiting.

Call physician.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce carbon dioxide and carbon monoxide.

CONDITIONS TO AVOID: Elevated temperatures and build up of vapors.

INCOMPATIBILITY (MATERIALS TO AVOID): None reasonably foreseeable.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Avoid breathing vapors. Use non-sparking tools to return materials to container. Absorb residue with Fuller's earth.

WASTE DISPOSAL METHOD:

Conventional procedures in compliance with local, state and federal regulations. Do not incinerate sealed containers.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Wear a properly fitted vapor/particulate approved by NIOSH for use with paints during .

VENTILATION:

Adequate to maintain working atmosphere below T.L.V. and L.F.L. (See Sect. II

for ingredient data and concentrations). Mechanical exhaust may be required in confined areas. Discharge exhaust only in area away from ignition sources.

PROTECTIVE GLOVES: Solvent impermeable gloves are required

EYE PROTECTION: Splash goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin.

HYGIENIC PRACTICES:

Remove and wash clothing before reuse. Wash hands before eating, smoking or using the washroom.

=====

#### SECTION IX - SPECIAL PRECAUTIONS

=====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Flammable - Keep away from heat, sparks and flame.

OTHER PRECAUTIONS:

Use only with adequate ventilation. Avoid prolonged contact with skin and breathing internally.

=====

#### SECTION XX

=====

HMIS (Hazardous Materials Identification System) (R) NPCA

HMIS is a recognized workplace Hazard Communications System as required by OSHA (29 CFR 1910.1200). Information on establishing a compliant hazardous communication program using HMIS is available from:

American Labelmark Co., Inc., Labelmaster Division  
5724 N. Pulaski Rd., Chicago, IL 60646  
1-800-621-5808

The ratings assigned by Benjamin Moore & Co. are only suggested ratings; the contractor/ employer has ultimate responsibility for HMIS rating where this system is used.

Personal Protection: This code is left blank on Benjamin Moore & Co. MSDS's as it depends on application technique and the workplace ventilation. Please read Sections II through IX of this MSDS before deciding on appropriate protective equipment and beginning work. There are codes available for this section which can be obtained from Labelmaster.

This product contains at least one toxic chemical listed in Section II that is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CR 372.

## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001

Date Prepared: 01/26/98

Date Printed: 05/15/98

MSDS No: 306.0179320-005.003

BIOSPERSE 255

MICROBIOCIDIC

---

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Material Identity**

Product Name: BIOSPERSE 255

MICROBIOCIDIC

Product Code: 4303

General or Generic ID: MICROBIOCIDIC

**Company**

Ashland Chemical Co.

P.O. Box 2219

Columbus, OH 43216

614-790-3333

**Emergency Telephone Number:**

1-800-ASHLAND (1-800-274-5263)

24 hours everyday

Regulatory Information Number:

1-800-325-3751

---

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient(s)  | CAS Number | % (by weight) |
|----------------|------------|---------------|
| GLUTARALDEHYDE | 111-30-8   |               |

---

3. HAZARDS IDENTIFICATION**Potential Health Effects****Eye**

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

**Skin**

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, and may add to toxic effects from breathing or swallowing.

**Swallowing**

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

**Inhalation**

Breathing of vapor or mist is possible.

**Symptoms of Exposure**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways), cough, tight feeling in the chest, headache, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficult breathing, shock.

Continued on next page

## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 002

Date Prepared: 01/26/98

Date Printed: 05/15/98

MSDS No: 306.0179320-005.003

BIOSPERSE 255

MICROBIOCIDIC

---

**Target Organ Effects**

No data

**Developmental Information**

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

**Cancer Information**

This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Inhalation, Skin absorption, Skin contact.

---

**4. FIRST AID MEASURES****Eyes**

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

**Skin**

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and decontaminate or discard contaminated shoes.

**Swallowing**

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Note to Physicians**

Probable mucosal damage may contraindicate the use of gastric lavage. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

---

**5. FIRE FIGHTING MEASURES****Flash Point**

Not applicable

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 003

Date Prepared: 01/26/98

Date Printed: 05/15/98

MSDS No: 306.0179320-005.003

BIOSPERSE 255

MICROBIOCIDICIDE

**Explosive Limit**

Not applicable

**Autoignition Temperature**

No data

**Hazardous Products of Combustion**

May form: carbon dioxide, carbon monoxide.

**Fire and Explosion Hazards**

No data

**Extinguishing Media**

alcohol foam, water fog, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**NFPA Rating**

Health - 2, Flammability - 0, Reactivity - 0

**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill**

Persons not wearing protective equipment should be excluded from the area of spill until clean-up has been completed. Decontaminate spilled material by careful application of aqueous ammonium hydroxide or sodium bisulfite solution. Considerable heat and fumes can be liberated by the decontamination reaction.

**7. HANDLING AND STORAGE**

**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

**Storage**

Product solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -17 degrees C (1.4 degrees F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about one month), temperatures of up to 100 degrees F can be tolerated, but the preferred maximum storage temperature is about 80 degrees F.

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## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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BIOSPERSE 255

MICROBIOCIDIC

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Eye Protection**

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

**Skin Protection**

Wear resistant gloves such as: natural rubber, nitrile rubber, polyethylene, butyl rubber, To prevent skin contact, wear impervious clothing and boots..

**Respiratory Protections**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Exposure Guidelines**

Component

-----

GLUTARALDEHYDE (111-30-8)

OSHA VPEL 0.200 ppm - Ceiling

ACGIH TLV 0.200 ppm - Ceiling

---

9. PHYSICAL AND CHEMICAL PROPERTIES**Boiling Point**

(for product) 212.0 F (100.0 C) @ 760 mmHg

**Vapor Pressure**

(for product) 16.000 mmHg @ 68.00 F

**Specific Vapor Density**

.710 @ AIR=1

**Specific Gravity**

1.030 - 1.044 @ 77.00 F

**Liquid Density**

8.630 lbs/gal @ 77.00 F

1.037 kg/l @ 25.00 C

**Percent Volatiles**

80.0 - 85.0 %

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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BIOSPERSE 255

MICROBIOCIDIC

**Appearance**

No data

**State**

LIQUID

**Physical Form**

HOMOGENEOUS SOLUTION

**Color**

CLEAR & COLORLESS

**Odor**

No data

**pH**

3.1 - 4.5

**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**

Product will not undergo hazardous polymerization. Polymerization can occur. At temperatures below the boiling point of water, it is not considered hazardous. Strong alkalis and acids catalyze an aldol-type condensation (exothermic, but not expected to be violent).

**Hazardous Decomposition**

May form: carbon dioxide, carbon monoxide.

**Chemical Stability**

Stable.

**Incompatibility**

No data

**11. TOXICOLOGICAL INFORMATION**

No data

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information**

This material (or a component) is toxic to fish and aquatic organisms.

**13. DISPOSAL CONSIDERATION**

**Waste Management Information**

Dispose of in accordance with all applicable local, state and federal regulations.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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Date Prepared: 01/26/98  
Date Printed: 05/15/98  
MSDS No: 306.0179320-005.003

BIOSPERSE 255 MICROBIOCIDIC

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

NON-REGULATED BY D.O.T.

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

None listed

CERCLA RQ - 40 CFR 302.4(b)

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed( ) Fire( ) Reactive( ) Sudden Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

GLUTARALDEHYDE

111-30-8

Pennsylvania RTK Label Information

PENTANEDIAL

111-30-8

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MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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Date Prepared: 01/26/98

Date Printed: 05/15/98

MSDS No: 306.0179320-005.003

BIOSPERSE 255

MICROBIOCIDIC

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16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001

Date Prepared: 01/21/98

Date Printed: 05/15/98

MSDS No: 306.0220578-006.002

BIOSPERSE 257

MICROBIOCIDIC

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Material Identity**

Product Name: BIOSPERSE 257

MICROBIOCIDIC

Product Code: 4834

General or Generic ID: MICROBIOCIDIC

**Company**

Ashland Chemical Co.  
P.O. Box 2219  
Columbus, OH 43216  
614-790-3333

**Emergency Telephone Number:**

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

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2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient(s)                     | CAS Number | % (by weight) |
|-----------------------------------|------------|---------------|
| TRIS (HYDROXYMETHYL) NITROMETHANE | 126-11-4   |               |
| FORMALDEHYDE                      | 50-00-0    |               |

---

3. HAZARDS IDENTIFICATION**Potential Health Effects****Eye**

Unlikely to cause eye irritation or injury.

**Skin**

Unlikely to cause skin irritation or injury.

**Swallowing**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**Inhalation**

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material is not likely to be harmful.

**Symptoms of Exposure**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea).

**Target Organ Effects**

No data

**Developmental Information**

No data

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## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 002

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BIOSPERSE 257

MICROBIOCIDES

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**Cancer Information**

Inhalation exposure of formaldehyde has been shown to cause nasal tumors in rats, and ingestion of formaldehyde in drinking water has been shown to cause leukemia and gastrointestinal tract tumors in rats. Epidemiology studies have not clearly associated exposure to formaldehyde with cancer in man. Formaldehyde is listed as a carcinogen by IARC, NTP, and OSHA.

**Other Health Effects**

No data

**Primary Route(s) of Entry**

No data

---

**4. FIRST AID MEASURES****Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Note to Physicians**

No data

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**5. FIRE FIGHTING MEASURES****Flash Point**

Not applicable

**Explosive Limit**

Not applicable

**Autoignition Temperature**

No data

Continued on next page

## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 003

Date Prepared: 01/21/98

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BIOSPERSE 257

MICROBIOCIDIC

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**Hazardous Products of Combustion**

May form: formaldehyde.

**Fire and Explosion Hazards**

No data

**Extinguishing Media**

alcohol foam, water fog, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**NFPA Rating**

Health - 1, Flammability - 0, Reactivity - 0

---

**6. ACCIDENTAL RELEASE MEASURES****Small Spill**

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill**

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

**7. HANDLING AND STORAGE****Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

**Storage**

Store in a warm area; crystallization point, approximately 0 degrees F. Frozen drums should be placed in a warm place and agitated frequently in order to hasten thawing. For thawing, warm water or steam may be used, but care must be taken to prevent damage to the polyethylene liner which can result from localized overheating.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Eye Protection**

Not required under normal conditions of use.

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## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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BIOSPERSE 257

MICROBIOCIDIC

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**Skin Protection**

Wear resistant gloves such as: natural rubber.

**Respiratory Protections**

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

**Exposure Guidelines**

Component

-----

TRIS (HYDROXYMETHYL) NITROMETHANE (126-11-4)

No exposure limits established

FORMALDEHYDE (50-00-0)

OSHA VPEL 0.750 ppm - TWA

OSHA VPEL 2.000 ppm - STEL

ACGIH TLV 0.300 ppm - Ceiling

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Boiling Point**

(for component) 212.0 F (100.0 C) @ 760 mmHg

**Vapor Pressure**

(for component) 17.500 mmHg @ 68.00 F

**Specific Vapor Density**

Not applicable

**Specific Gravity**

1.107 @ 77.00 F

**Liquid Density**

9.210 lbs/gal @ 77.00 F

1.107 kg/l @ 25.00 C

**Percent Volatiles**

70.0 - 85.0 %

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

**Appearance**

No data

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 005

Date Prepared: 01/21/98

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MSDS No: 306.0220578-006.002

BIOSPERSE 257

MICROBIOCIDIC

**State**

LIQUID

**Physical Form**

No data

**Color**

COLORLESS TO PALE YELLOW

**Odor**

No data

**pH**

2.5 - 5.0

**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

May form: formaldehyde, Releases formaldehyde at alkaline pH..

**Chemical Stability**

Stable.

**Incompatibility**

Avoid contact with: amines, excessive heat, strong bases.

**11. TOXICOLOGICAL INFORMATION**

No data

**12. ECOLOGICAL INFORMATION**

No data

**13. DISPOSAL CONSIDERATION**

**Waste Management Information**

Dispose of in accordance with all applicable local, state and federal regulations.

**14. TRANSPORT INFORMATION**

DOT Information - 49 CFR 172.101

**DOT Description:**

NON-REGULATED BY D.O.T.

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## MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

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Date Prepared: 01/21/98

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MSDS No: 306.0220578-006.002

BIOSPERSE 257

MICROBIOCIDIC

**Container/Mode:**

55 GAL DRUM/TRUCK PACKAGE

**NOS Component:**

None

**RQ (Reportable Quantity) - 49 CFR 172.101**

Product Quantity (lbs) Component

18265

FORMALDEHYDE

**15. REGULATORY INFORMATION****US Federal Regulations****TSCA (Toxic Substances Control Act) Status**

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a).**

Component

RQ (lbs)

FORMALDEHYDE

100

**CERCLA RQ - 40 CFR 302.4(b)**

Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

**SARA 302 Components - 40 CFR 355 Appendix A**

Section 302 Component(s)

TPQ (lbs)

RQ (lbs)

FORMALDEHYDE

500

100

**Section 311/312 Hazard Class - 40 CFR 370.2**

Immediate( )

Delayed(X)

Fire( )

Reactive( )

Sudden Release of

Pressure( )

**SARA 313 Components - 40 CFR 372.65**

Section 313 Component(s)

CAS Number

%

FORMALDEHYDE

50-00-0

.54

**International Regulations****Inventory Status**

Not determined

**State and Local Regulations****California Proposition 65**

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

FORMALDEHYDE (GAS)

**New Jersey RTK Label Information**

FORMALDEHYDE

50-00-0

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MATERIAL SAFETY DATA SHEET

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BIOSPERSE 257

MICROBIOCIDES

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16. OTHER INFORMATION

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