

MATERIAL SAFETY DATA SHEET

AQUET[®]

F17094-0030	1 Gallon
F17094-0050	5 Gallon
F17094-0510	55 Gallon



PEQUANNOCK, NJ 07440-1993 USA
TEL: 201-694-0500 / FAX: 201-694-7199
INTERNET: <http://www.bel-art.com>

BEL-ART PRODUCTS

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HEALTH HAZARD DATA (CONT.)

DOT Corrosive:

Primary Route(s) of Entry:

SIGNS & SYMPTOMS OF EXPOSURE:

Symptoms of Ingestion:

Symptoms of Inhalation:

Symptoms of Skin Contact:

Symptoms of Eye Contact:

EMERGENCY FIRST AID PROCEDURES

First Aid for Ingestion:

First Aid for Inhalation:

First Aid for Skin Contact:

First Aid for Eye Contact:

Medical Conditions Aggravated by Exposure: No data found.

Exposure Limits:

OTHER TOXICITY

Other Acute Toxicity:

Sub Chronic Oral Toxicity:

Sub Chronic Inhalation Toxicity:

Sub Chronic Miscellaneous Toxicity:

No

Absorption / Contact

No effects of exposure expected.

If misted, causes irritation of mucous membranes, nose, eyes and throat. Coughing, difficulty in breathing.

No effects of exposure expected due to contact. May possibly cause irritation or dermatitis in some individuals upon prolonged contact.

Causes painful stinging or burning of eyes and lids, watering of eyes, conjunctivitis, opaqueness of cornea, possibly leading to loss of sight.

General precautionary measures suggest inducing vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

For all foreign materials, wash after exposure.

Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

See section 02 for physical & health hazard ingredients.

Intravaginal- human: 10% nonoxynol in spermicidal film; 2/30- mild, local irritation; 1/30- pruritus.

90 day-rat, dog; 0.01-5.0% diet: retarded growth (poor palatability) at 0.64%; 11/15 rats died at 5.0%. 2yr.-dog, rat: 0.03-0.27% diet; no toxic effects: 0.27%-increased liver: Body weight ratio in dogs. 90 day-RAT: 0.01-1.25% diet; increased liver, kidney, spleen wts. at 0.3% retarded growth (poor palatability).

No data found.

14 day IVG-human: 150 mg/day; no liver/hematology effects except decreased serum cholesterol. 2yr. oral-rat (0.2 & 0.14 G/KG/D), dog (0.04 & 0.03 G/KG/D); no carcinogenic effects.

HEALTH HAZARD DATA (CONT.)

Aquatic Toxicity:

Fathead Minnow TL0:

Bluegill TL50:

Bass TL0:

Catfish TL0:

Golden Shiner TLm:

Guppy TLm:

(48 HR) > 12 and < 18 PPM

(48 HR) LC50 4.1 PPM

Tumorigenicity:

The NTP lists ethylene oxide in the "Fourth Annual Report on Carcinogens", referencing an IARC report published in 1984. This report states that there is sufficient evidence for carcinogenicity to experimental animals. However, when product is handled in accordance with section 07, "Occupational Control Procedures", neither acute nor long term hazard from ethylene oxide is expected.

Mutagenicity:

Ames assay: negative

Reproductive Toxicity:

Intravaginal - rat: nonoxynol-9 in contraceptive cream: no teratogenic effects noted.

Miscellaneous Toxicity:

Excretion-rat; 10mg radiolabeled oral dose; >90% eliminated by day 2 Cellular:5% in vitro: inactivated herpes simplex virus type 1 & 2 by destroying viral envelope and nucleocapsid. Absorption, excretion-rabbit, rat: absorbed through vaginal wall, excreted by liver-bile-feces and kidney-urine routes.

OCCUPATIONAL CONTROL PROCEDURES

Ventilation:

Traces of ethylene oxide (EO) could accumulate in headspace of storage/transport vessels. Use with adequate ventilation, especially where drums or tankwagons are being opened.

Respiratory Protection:

Use NIOSH-approved respirator, if adequate ventilation cannot be provided at any time, or if there is a possibility of excessive contact with headspace above the drum or tankwagon.

Eye Protection:

Chemical goggles

Skin Protection:

None required

Personal Hygiene:

Wash thoroughly after handling.

Protective Measures During Repair/Maintenance of Equipment:

Wash equipment thoroughly with steam or warm water until clean. Check for flammables with an "Explosion Meter" and also check the oxygen level with an oxygen meter. In all cases, follow good industrial safety practices before entering equipment.

PRECAUTIONS FOR SAFE HANDLING, STORAGE, AND USE

Precautionary Measures:

Do not get in eyes. Wash thoroughly after handling. Avoid breathing mist. Use with adequate ventilation for misting operations. EO, a cancer and reproductive hazard, may be present in this product. Repeated exposure may be harmful. If control procedures in section 07 are followed. Air space concentrations should be below the OSHA established "Action Level"

FINAL PRODUCT ANALYSIS: IGEPAL CO 630 (Aquet)

TEST DESCRIPTION	ANALYSIS	SPECIFICATION
Moisture (Karl Fisher),	.04	.5
Appearance @ 25 Deg C Clear to slightly hazy	Pass	
Color Alpha	30.0	50.0
Cloud Point (1% Solution), Deg C	53.2	52.0 56.0
Neutralization # (PH 7), MG KOH/G	.02	.2

PRECAUTIONS FOR SAFE HANDLING, STORAGE, AND USE (CONT.)

Spill/Leak Clean-up Procedures:
Absorb with earth, sand or similar inert material and dispose of with solid waste according to Federal, State and Local regulations. Flush spill area with water.

Disposal Method:
Dispose of with liquid waste according to Federal, State and Local regulations.

EPA Hazardous Substance Reportable Quantity: Not Listed
RCRA Class: Not Regulated

TRANSPORTATION DATA

-Domestic Data-
DOT Shipping Name: Not Regulated

DOT Hazard Class: Not Regulated

Hazardous Ingredient(s): None

UN Number: None

-Export Data-
Export Shipping Name: Not Regulated

Export Hazard Class: Not Regulated

Hazardous Ingredient(s): None

UN Number: None

Prepared by: Health, Safety and Environmental Affairs

The information herein is given in good faith but no warranty is expressed nor implied.

Effective Date: 06/08/93


End of Material Safety Data Sheet

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "essentially similar" to Form LSB-005-4)

SECTION I IDENTIFICATION OF PRODUCT		Code 2793	
MANUFACTURER'S NAME AMERICAN CYANAMID COMPANY		EMERGENCY TELEPHONE NO. (201) 835-3100	
ADDRESS Wayne, New Jersey 07470			
TRADE NAME AND SYNONYMS AEROSOL® OTB 85% Surface Active Agent			
CHEMICAL NAME AND SYNONYMS Sodium dioctyl sulfosuccinate with sodium benzoate			
CHEMICAL FAMILY Ester		MOLECULAR FORMULA $CH_2COOC_8H_{17}$ $NaO_3SCHCOOC_8H_{17}$	

SECTION II HAZARDOUS COMPONENTS OF MIXTURES					
COMPONENT	%	THRESHOLD LIMIT VALUE (UNITS)	COMPONENT	%	THRESHOLD LIMIT VALUE (UNITS)
Sodium benzoate	15	(No TLV has been established)			
Sodium dioctyl sulfosuccinate	85	(No TLV has been established)			



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McKESSEON
CHEMICAL COMPANY
5353 JILL ROAD, REEF
LOS ANGELES, CALIF. 90047
PHONE: 213-269-9531

SECTION III PHYSICAL DATA			
APPEARANCE AND ODOR White powder; mild, soapy odor			
BOILING POINT (DEGREES FAHRENHEIT)	Not applicable	SPECIFIC GRAVITY (WATER = 1)	1.1
VAPOR PRESSURE (MM. OF MERCURY)	Not applicable	PERCENT VOLATILE (BY VOLUME)	None
VAPOR DENSITY (AIR = 1)	Not applicable	EVAPORATION RATE (BUTYL ACETATE = 1)	Not applicable
SOLUBILITY IN WATER	Moderate	EVAPORATION RATE (ETHYL ETHER = 1)	Not applicable

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (SPECIFY METHOD) (DEGREES FAHRENHEIT)	Not applicable	FLAMMABLE LIMITS (PERCENT BY VOLUME)	LOWER UPPER Not applicable
FIRE-EXTINGUISHING MEDIA Water			
SPECIAL FIRE-FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Causes eye irritation
EMERGENCY AND FIRST-AID PROCEDURES	In case of contact with eyes; flush eyes with plenty of water for at least 15 minutes; get medical attention.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	None
	STABLE	X		
INCOMPATIBILITY (Materials to avoid)		No specific incompatibility		
HAZARDOUS DECOMPOSITION PRODUCTS		Thermal decomposition may produce carbon monoxide and/or carbon dioxide.		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	None
	WILL NOT OCCUR	X		

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Sweep up and place in a waste disposal container. Flush area with water.
WASTE DISPOSAL METHOD	Bury in a landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)				If there is excessive dustiness, wear a respirator approved by the U. S. Bureau of Mines for nuisance dusts.
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL	None
	MECHANICAL (General)	Acceptable	OTHER	None
PROTECTIVE GLOVES		Not required	EYE PROTECTION	
			Splashproof goggles.	
OTHER PROTECTIVE EQUIPMENT		Eyewash fountain		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	None
OTHER PRECAUTIONS	None

SECTION X DATE AND SOURCE OF INFORMATION

DATE	30 December 1971	NAME AND TITLE	C. Boyd Shaffer, Ph.D. Director of Toxicology	SHEET NUMBER	41
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