

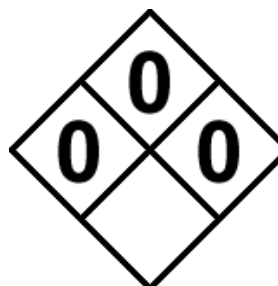


HASA ALGI-CONTROL

Material Safety Data Sheet

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HASA ALGI-CONTROL
Material Safety Data Sheet MSDS No. 301

MATERIAL IDENTIFICATION

Product Name:	Barquat OJ-50
CAS No.:	See Section – CHEMICAL OR HAZARDOUS COMPONENTS
Molecular Formula:	Mixture
Chemical Name:	(Active) N-Alkyl (C12-16)-N, N-dimethyl-N-benzylammonium chloride

CHEMICAL OR HAZARDOUS COMPONENTS

Chemical Name	CAS No.	Approx. Wt. %	Exposure Limit
N-Alkyl (C12-16)-N, N-dimethyl-N-benzylammonium chloride	68424-85-1	50%	None Established.
Ethyl Alcohol	64-17-5	10%	OSHA-PEL 1000 ppm ACGIH-TLV 1000 ppm
Water	7732-18-5	40%	None Established.

POTENTIAL HEALTH EFFECTS

Primary Routes of Entry:	Skin Contact
	Eye Contact
	Inhalation
Effects of Overexposure: Based on animal test data for this material, the following effect(s) can be anticipated: Direct skin or eye contact may produce severe irritation and/or burns and possible irreversible damage. Ingestion can cause immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx. Ingestion can cause skeletal muscle paralysis affecting the ability to breath; circulatory shock; and/or convulsions. May be fatal if ingested. Solvent vapors or mists of product may cause irritation of mucous membranes. Prolonged inhalation may produce drowsiness, lassitude, and inability to concentrate.	
Overexposure may aggravate existing conditions:	No effects indicated.
Material listed as carcinogen:	
National Toxicology Program:	No
I.A.R.C. Monographs:	No
O.S.H.A.	No

FIRST AID MEASURES	
Skin Contact:	For skin contact, wash with plenty of running water, and soap if available, for 15 minutes. Remove and clean contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
Eye Contact:	For eye contact, immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention.
Inhalation:	If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available.
Ingestion:	Get immediate medical attention. If swallowed, give 3-4 glasses of milk (if unavailable, water). DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine if vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.
Medical Treatment:	Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, oxygen, and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

FIRE AND EXPLOSION INFORMATION	
Flash point:	107° F Setaflash Closed Tester
Decomposition temperature:	Not known.
Self ignition:	Not known.
Lower explosion limit:	Not known.
Upper explosion limit:	Not known.
Extinguishing media to be used:	Carbon Dioxide, Dry chemical, Alcohol foam, Water
Special fire fighting procedures:	Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.
Unusual fire and explosion hazards:	Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back.

ACCIDENTAL RELEASE MEASURES	
Measures after spillage/leakage/release:	
Remove all sources of ignition and ground all equipment before beginning cleanup. Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.). Transfer the solid and liquid to separate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.	

HANDLING AND STORAGE	
Precautions for storage and handling:	
Store containers in compliance with the most recent NFPA Code (NFPA 30). Ground all containers prior to pouring. Take appropriate measures to avoid exposure to high vapor concentrations, which can occur when transferring material from container to container. Keep containers closed until used. Maximum storage temperature: 140° F. Keep from freezing. Do not contaminate drinking water, food or feed by storage or disposal.	

EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.
Respiratory Protection:	In processes where mists or vapors are generated, a NIOSH/MSHA approved respirator is advised in the absence of proper environmental controls or if TWA/TLV is exceeded.
Protective Gloves:	Use rubber or neoprene gloves to prevent skin contact.
Eye Protection:	Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.
Other protective equipment:	Eyewash; safety shower; protective clothing; (long sleeves, coveralls or other).

PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	Freezing Point:	-5°C
Color:	Pale Yellow	Boiling Point:	105°C
Odor:	Benzaldehyde-like	Density:	0.96 at 25° C
Bulk Density:	Not Applicable.	Vapor Pressure:	Not Known.
Relative Vapor Density:	Not Known.	Max. Percent Volatile:	50%
Evaporation Rate:	Not Known.	Viscosity:	34 cP at 25° C
Water Solubility:	Soluble	pH-Value:	6.5 – 8.3 at 10%

STABILITY AND REACTIVITY

Stability:	Stable Conditions to avoid: None known.
Hazardous decomposition products:	Toxic organic vapors/fumes Hydrogen Chloride Toxic vapors/fumes of amines Oxides of Carbon. Oxides of Nitrogen.
Dangerous Polymerization:	No Conditions to avoid: None known.
Dangerous Incompatibility with water:	No
(Dangerous) Reactions/Incompatibility with:	Strong Oxidizing Agents. Strong Reducing Agents.

TOXICOLOGY INFORMATION

Acute Oral Toxicity (LD50):	Rat: 1000 mg/kg
Acute Oral Toxicity (LD50):	Rat: 960 mg/kg
Acute Dermal Toxicity (LD50):	Rabbit: 4800 mg/kg
Skin Irritation:	Rabbit: Severe irritant. [Primary Irritation Index: 8.0, 4.5 (two tests)] DOT Rabbit: Corrosive Via DOT test for skin corrosivity Rat: Non-irritant. For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component: repeated exposures at 0.1% for two weeks. Rat: Mild to moderate irritant. For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component: repeated exposures at 3% for two weeks. Rat: Severe irritant. For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component: repeated exposures at 6% and 10% for two weeks.

TOXICOLOGY INFORMATION	
Eye Irritation:	Rabbit: Severe Irritant. 40% active solution caused severe irritation that did not clear by day 14, post dose. Rabbit: Non-Irritant. For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component: repeated exposures at 5 ppm for three weeks
Sensitization:	Guinea Pig: Not Sensitizing
Reproductive Toxicity:	Rat: Not Teratogenic. Doses of 10 to 100 mg/kg on days 6 to 15 of gestation are not terotogenic. Rat: For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride: No neonatal/parental effects at 1000 ppm, observed at 2000 ppm.
Sub acute Toxicity:	Dermal Rabbit: Test period: 20 days At a concentration of 400 ppm, a chronic inflammatory response was produced in one of the two test animals.
Sub chronic Toxicity:	Dermal Rat: 20mg/kg/day Test Period: 90 days For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component: mild skin irritation; no systemic toxic effects.
Sub chronic Toxicity:	Dietary Rat: Test Period: 90 days For the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride: Definite effects at 4000 ppm, possible at 1000 ppm, none at 500 ppm.
Photo allergy:	Guinea pig: Not photo allergenic. Skin photoallergenicity test for the N-Alkyl-N, N-dimethyl-N-benzylammonium chloride component

ECOTOXICOLOGY AND ECOLOGY INFORMATION	
LD 50 Oral Mallard Duck: 270 mg/kg	
LC 50 Daphnia magna: 0.037 ppm	
LC 50 Dietary Bobwhite quail: 20000 ppm Exposure period: 8 days	
LC 50 Dietary Mallard Duck: > 20000 ppm Exposure period: 8 days	

DISPOSAL CONSIDERATIONS	
Disposal Product:	Dispose of in compliance with all Federal, State and local laws and regulations. Incineration is the preferred method.
Packaging:	CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

TRANSPORTATION	
DOT Hazard Class:	8, PG II
Bulk only:	No
Proper Shipping Name:	Disinfectants, Liquid, Corrosive N.O.S.
UN / NA No.:	UN1903
DOT label(s):	CORROSIVE No. 8
Further Information:	IMO: CORROSIVE LIQUID, Flammable, N.O.S., UN2920

REGULATORY INFORMATION	
Directions for Use:	FOR MANUFACTURING, PROCESSING, OR REPACKAGING.

FEDERAL LEVEL REGULATIONS:

Toxic Substances Control Act (TSCA) Inventory

This product is currently listed on the EPA TSCA 8(b) inventory list.

US EPA REGULATION ON PESTACIDES:

This product is an EPA registered pesticide. EPA Registration No. 6836-11. This product can only be used commercially in the EPA registered application(s) noted on the product label.

CERCLA:

(Comprehensive Environmental Response, Compensation, and Liability Act of 1980). Requires notification of the National Response Center (1-800-424-8802) of release of quantities of Hazardous Substances equal to or greater than the Reportable Quantities of Hazardous Substances equal to or greater than the Reportable Quantities (RQs) in 40 CFR 302.4 The following could require reporting:
None

SARA Title III: Sections 302/304

(Superfund Amendments and Reauthorization Act of 1986). Require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under the statute are:
None

SARA Title III: Sections 311/312

(Superfund Amendments and Reauthorization Act of 1986). Requires reporting under the Community Right-to-Know provisions due to their inclusion in one of the five hazard categories listed in 40 CFR 370. Components present in this product which could require reporting under the statute are:

IMMEDIATE (ACUTE) HEALTH HAZARD:

Chemical Name: N-Alkyl (C12-16)-N, N-dimethyl-N-benzylammonium chloride
CAS No.: 68424-85-1
Concentration: 50%

DELAYED (CHRONIC) HEALTH HAZARD: None

FIRE HAZARD:

Chemical Name: Ethyl alcohol
CAS No.: 64-17-5
Concentration: 10%

REACTIVITY HAZARD: None

SARA TITLE III: Section 313

(Superfund Amendments and Reauthorization Act of 1986). Requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are:
None

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:
None

STATE RIGHT-TO-KNOW REGULATIONS

CALIFORNIA Proposition 65

Substances, which are known to the State of California to cause cancer and/or birth defects or other reproductive harm, must be identified when present in products. Components present in this product at a level which could require reporting under the statute in either or both hazard categories are:

AS A CANCER HAZARD:

Chemical Name	CAS No.	Concentration (max/typ)
Acetaldehyde	75-07-0	1 ppm
N-Nitrosodimethylamine	62-75-9	1 ppm
Propylene Oxide	75-56-9	10 ppm
Benzene	71-43-2	100 ppm
Benzyl Chloride	100-44-7	100 ppm

AS A REPRODUCTIVE HAZARD:

Chemical Name	CAS No.	Concentration (max/typ)
Toluene	108-88-3	200 ppm

MASSACHUSETTS RIGHT-TO-KNOW Substance List (MSL)

Hazardous and Extraordinary Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

EXTRAORD. HAZARDOUS SUBSTANCES (≥ 1 ppm or 0.0001%):

Chemical Name	CAS No.	Concentration (max/typ)
Acetaldehyde	75-07-0	1 ppm
N-Nitrosodimethylamine	62-75-9	1 ppm
Propylene Oxide	75-56-9	10 ppm
Benzene	71-43-2	100 ppm
Benzyl Chloride	100-44-7	100 ppm

HAZARDOUS SUBSTANCES ($\geq 1.0\%$):

Chemical Name	CAS No.	Concentration (max/typ)
Ethyl Alcohol	64-17-5	10%

MICHIGAN CRITICAL MATERIALS

This product contains the following substances identified on the Michigan Critical Materials Register:
None

NEW JERSEY RIGHT-TO-KNOW Substance List

Requires Hazardous Substances and Specially Hazardous Substances on the list to be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

HAZARDOUS SUBSTANCES ($\geq 1.0\%$):

Chemical Name	CAS No.	Concentration (max/typ)
N-Alkyl (C12-16)-N, N-dimethyl-N-benzylammonium chloride	68424-85-1	50%
Ethyl Alcohol	64-17-5	10%

PENNSYLVANIA RIGHT-TO-KNOW Hazardous Substance List

Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

SPECIAL HAZARDOUS SUBSTANCES (>=0.01%):

Chemical Name	CAS No.	Concentration (max/typ)
Benzene	71-43-2	100 ppm

HAZARDOUS SUBSTANCES (>=1.0%):

Chemical Name	CAS No.	Concentration (max/typ)
Ethyl Alcohol	64-17-5	10%

ENVIRONMENTAL HAZARDOUS SUBSTANCES (>= 1.0%):

None

FURTHER INFORMATION

No Information available.

Please Note: The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, expressed or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation and use procedures. The safe handling, storage, transportation and use procedures remain the sole responsibility of the customer. No suggestions for handling, storage, transportation or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc.. This Material Safety Data Sheet has been prepared by HASA, Inc. staff from test reports and other information available in the public domain.